

HCD-GP5

SERVICE MANUAL

Ver 1.5 2004.10



US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

HCD-GP5 is the Amplifier, CD player, Tape Deck and Tuner section in CMT-GP5.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM55A-K6BD44B
	Base Unit Name	BU-K1BD44B
	Optical Pick-up Name	KSM-213D
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z240A

SPECIFICATIONS

Amplifier section

AUDIO POWER SPECIFICATIONS:
(U.S.A. model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6-ohm loads, both channels driven, from 120 - 10,000 Hz; rated 35 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.
North American model:

Continuous RMS power output (reference):
35 + 35 W
(6 ohms at 1 kHz, 10% THD)

European model:
DIN power output (rated): 30 + 30 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
30 + 30 W
(6 ohms at 1 kHz, 10% THD)

Music power output (reference):
60 + 60 W

Other models:
The following measured at AC 230 V or AC 120 V, 50/60 Hz

DIN power output (rated): 30 + 30 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
30 + 30 W
(6 ohms at 1 kHz, 10% THD)

Inputs
MD IN (phono jacks):

Sensitivity 500 mV,
impedance 47 kilohms

Outputs
PHONES (stereo minijack):

Accepts headphones with
an impedance of 8 ohms or
more

SPEAKERS:
Accepts impedance of 6 to
16 ohms.

CD player section

System
Compact disc and digital
audio system

Laser
Semiconductor laser
($\lambda=780$ nm)

Emission duration:
continuous

Frequency response
2 Hz - 20 kHz (± 0.5 dB)

Tape deck section

Recording system
Frequency response
4-track 2-channel stereo
50 - 13,000 Hz (± 3 dB),
using Sony TYPE I
cassettes

Tuner section

FM stereo, FM/AM superheterodyne tuner
FM tuner section

Tuning range
87.5 - 108.0 MHz (50-kHz
step)

Antenna
Antenna terminals
Intermediate frequency
10.7 MHz

AM tuner section
Tuning range
Pan-American model:
530 - 1,710 kHz
(with the tuning interval
set at 10 kHz)
531 - 1,710 kHz
(with the tuning interval
set at 9 kHz)

European model:
531 - 1,602 kHz
(with the tuning interval
set at 9 kHz)

Other models:
530 - 1,710 kHz
(with the tuning interval
set at 10 kHz)
531 - 1,602 kHz
(with the tuning interval
set at 9 kHz)

Antenna
Intermediate frequency
AM loop antenna, external
antenna terminal
450 kHz

— Continued on next page —

MICRO HI-FI COMPONENT SYSTEM

9-877-380-06

2004J16-1

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Sony Corporation

Personal Audio Company

Published by Sony Engineering Corporation

SONY®

General

Power requirements

North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Australian model:	230 - 240 V AC, 50/60 Hz
Hong Kong model:	220 - 240 V AC, 50/60 Hz
Singaporean model:	220 - 240 V AC, 50/60 Hz
Other models:	110 - 120 V or 220 - 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption

North American model:	60 watts
European model:	60 watts 0.3 watts (in the standby mode)
Other models:	60 watts
Dimensions (w/h/d)	Approx. 190 × 250 × 270 mm
Mass	Approx. 4.6 kg

Design and specifications are subject to change
without notice.

TABLE OF CONTENTS

1. SERVICING NOTES	3
2. GENERAL	5
3. DISASSEMBLY	
3-1. Top Cabinet, Rear Panel	7
3-2. Front Panel Assy	8
3-3. CONTROL Board, Single Cassette Mechanism	8
3-4. CD Mechanism Deck (CDM55A-K6BD44B)	9
3-5. MAIN Board, TRANSFORMER Board	10
3-6. LOADING Board	10
3-7. CD Board	11
3-8. Tray (CDM55D)	11
3-9. Optical Pick-up (KSM-213D), Holder (C213)	12
4. MECHANICAL ADJUSTMENTS	13
5. ELECTRICAL ADJUSTMENTS	14
6. DIAGRAMS	17
6-1. Block Diagram	19
6-2. Printed Wiring Board – CD Section –	20
6-3. Schematic Diagram – CD Section –	21
6-4. Printed Wiring Board – Control Section –	22
6-5. Schematic Diagram – Control Section –	23
6-6. Printed Wiring Boards – Main Section –	24
6-7. Schematic Diagram – Main Section (1/4) –	25
6-8. Schematic Diagram – Main Section (2/4) –	26
6-9. Schematic Diagram – Main Section (3/4) –	27
6-10. Schematic Diagram – Main Section (4/4) –	28
6-11. Printed Wiring Board – Power Section –	29
6-12. Schematic Diagram – Power Section –	30
6-13. IC Pin Function Description	35
7. EXPLODED VIEWS	
7-1. Overall Section	37
7-2. Front Panel Section	38
7-3. Chassis Section	39
7-4. CD Mechanism Deck Section	40
7-5. KSM-213D	41
8. ELECTRICAL PARTS LIST	42

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH
MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS
LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE
COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS
APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES
DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT
CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE
REEMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY
DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU
DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 SERVICING NOTES

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

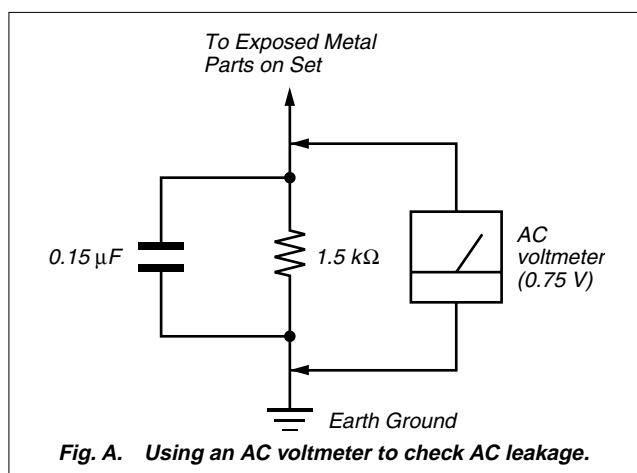
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

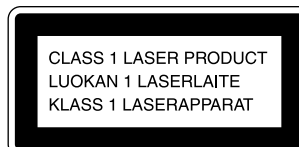
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the exterior.



Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

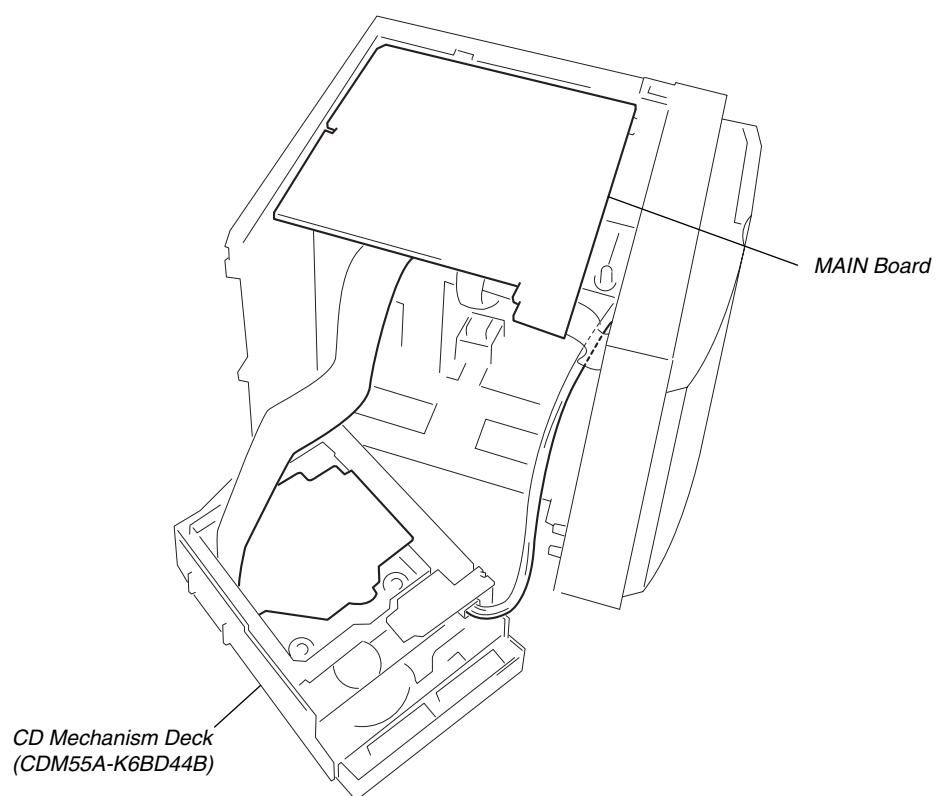
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

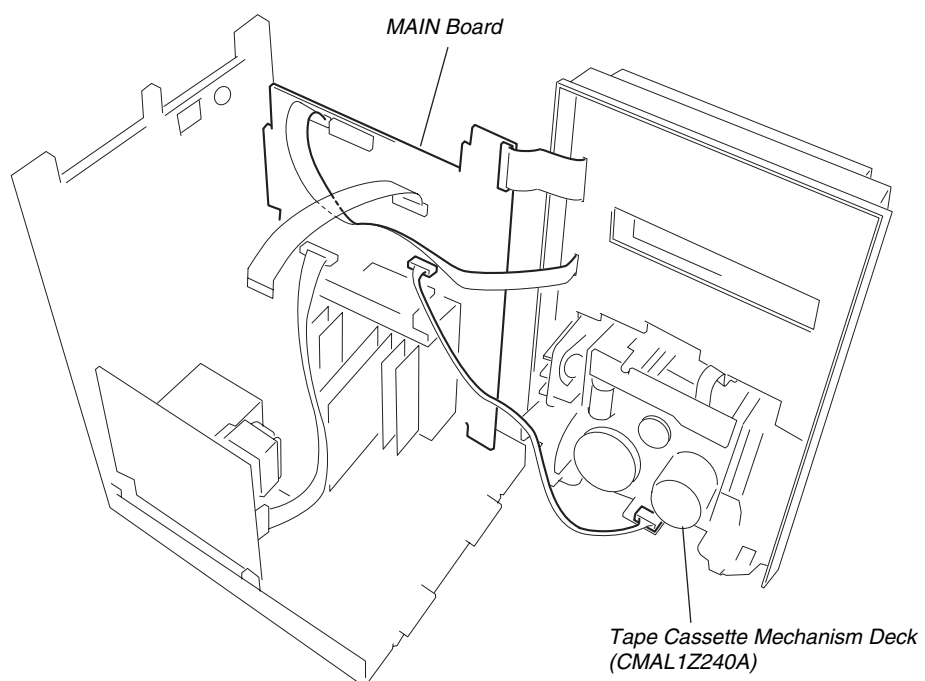
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveforms is output three times.

Service Position of the CD Mechanism Deck



Service Position of the Tape Cassette Mechanism Deck



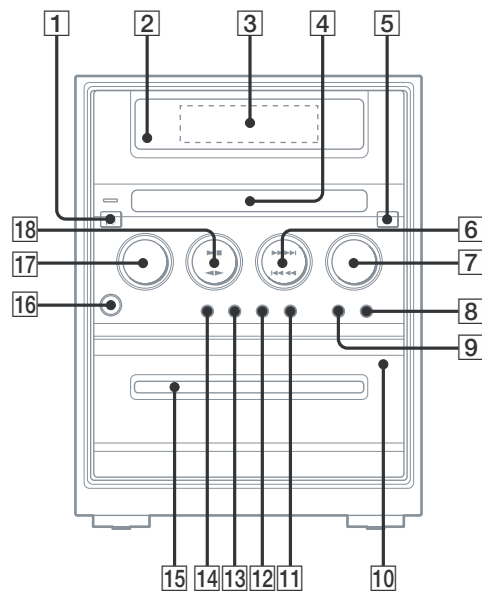
This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page	Illustration number
Use this page to find the location of buttons and other parts of the system that are mentioned in the text.	DISPLAY 8 (9, 10, 16)
	Name of button/part Reference page

Main unit

ALPHABETICAL ORDER		BUTTON DESCRIPTIONS
A – M	P – Z	I/⏻ (power) 1 (5, 9, 14, 15)
Cassette compartment 15	PHONES jack 16	◀◀◀/▶▶▶▶▶ (go back/go forward or fast forward/rewind) 6 (5, 6, 7, 11, 12, 14, 15, 16)
CD SYNC 13 (12)	PLAY MODE/TUNING MODE 9 (6, 7)	■ (stop) 12 (6, 7, 11, 12, 20)
DIRECTION 9 (11, 12, 15)	Remote sensor 2	REC PAUSE/START ● 14 (12, 15)
Disc tray 4	TUNER/BAND 17 (8, 9)	CD ▶▶▶▶▶ (play/pause) 18 (6, 7)
DISPLAY 8 (9, 10, 16)	TUNING +/- 6 (8, 9)	TAPE ◀▶▶▶▶ (play) 18 (11, 12, 15)
Display window 3	VOLUME +/- 7 (14, 15)	▲ (CD open/close) 5 (6)
DSG 11 (13)		▲ PUSH (tape open/close) 10 (11)
MD 17 (17)		



Remote control

ALPHABETICAL ORDER

A - M

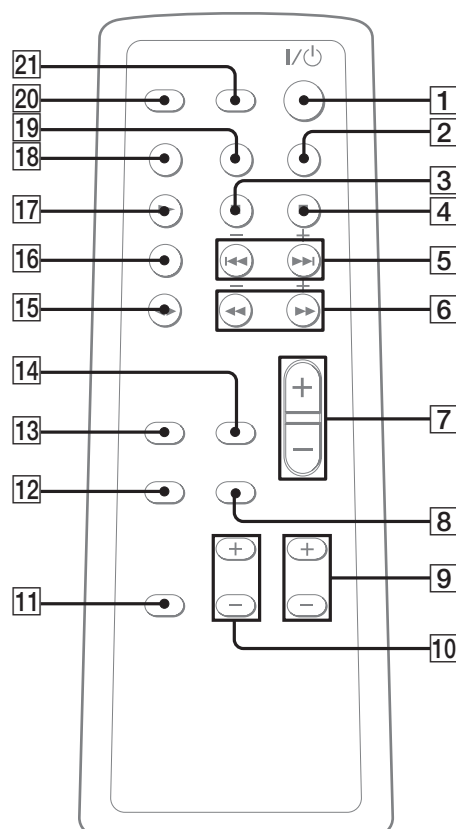
BASS +/- [10] (13)
 CLEAR [8] (8, 9)
 CLOCK/TIMER SELECT [20]
 (14, 15)
 CLOCK/TIMER SET [21] (5, 14,
 15)
 DISPLAY [2] (9, 10, 16)
 DSG [11] (13)
 MD [18] (17)

P - Z

PLAY MODE/DIRECTION [13]
 (6, 7, 11, 12, 15)
 PRESET +/- [5] (9)
 REPEAT/FM MODE [14] (7, 9)
 SLEEP [19] (13)
 TREBLE +/- [9] (13)
 TUNER BAND [16] (8, 9)
 TUNER MEMORY [12] (8)
 TUNING +/- [6] (8, 9)
 VOL +/- [7] (14, 15)

BUTTON DESCRIPTIONS

I/⏻ (power) [1] (5, 9, 14, 15)
 ⏮/⏭ (fast forward/rewind)
 [6] (6, 11)
 ⏮/⏭ (go back/go forward)
 [5] (5, 6, 7, 12, 14, 15, 16)
 ■ (stop) [4] (6, 7, 11, 12, 20)
 || (pause) [3] (6, 11)
 CD ▶ (play) [17] (6, 7)
 TAPE ◀▶ (play) [15] (11, 12,
 15)



Setting the clock

Use buttons on the remote for the operation.

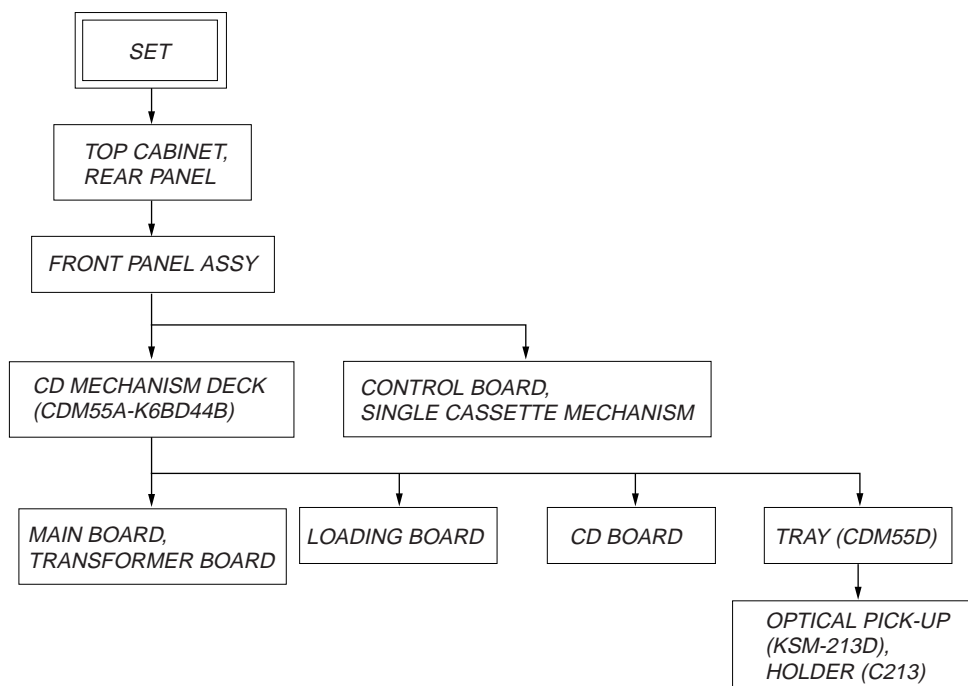
- 1** Press I/⏻ to turn on the system.
- 2** Press CLOCK/TIMER SET.
- 3** Press ⏮/⏭ repeatedly to set the hour.
- 4** Press CLOCK/TIMER SET.
- 5** Press ⏮/⏭ repeatedly to set the minute.
- 6** Press CLOCK/TIMER SET.
The clock starts working.

To adjust the clock

- 1** Press CLOCK/TIMER SET.
- 2** Press ⏮/⏭ to select "CLOCK", then press CLOCK/TIMER SET.
- 3** Do the same procedures as step 3 to 6 above.

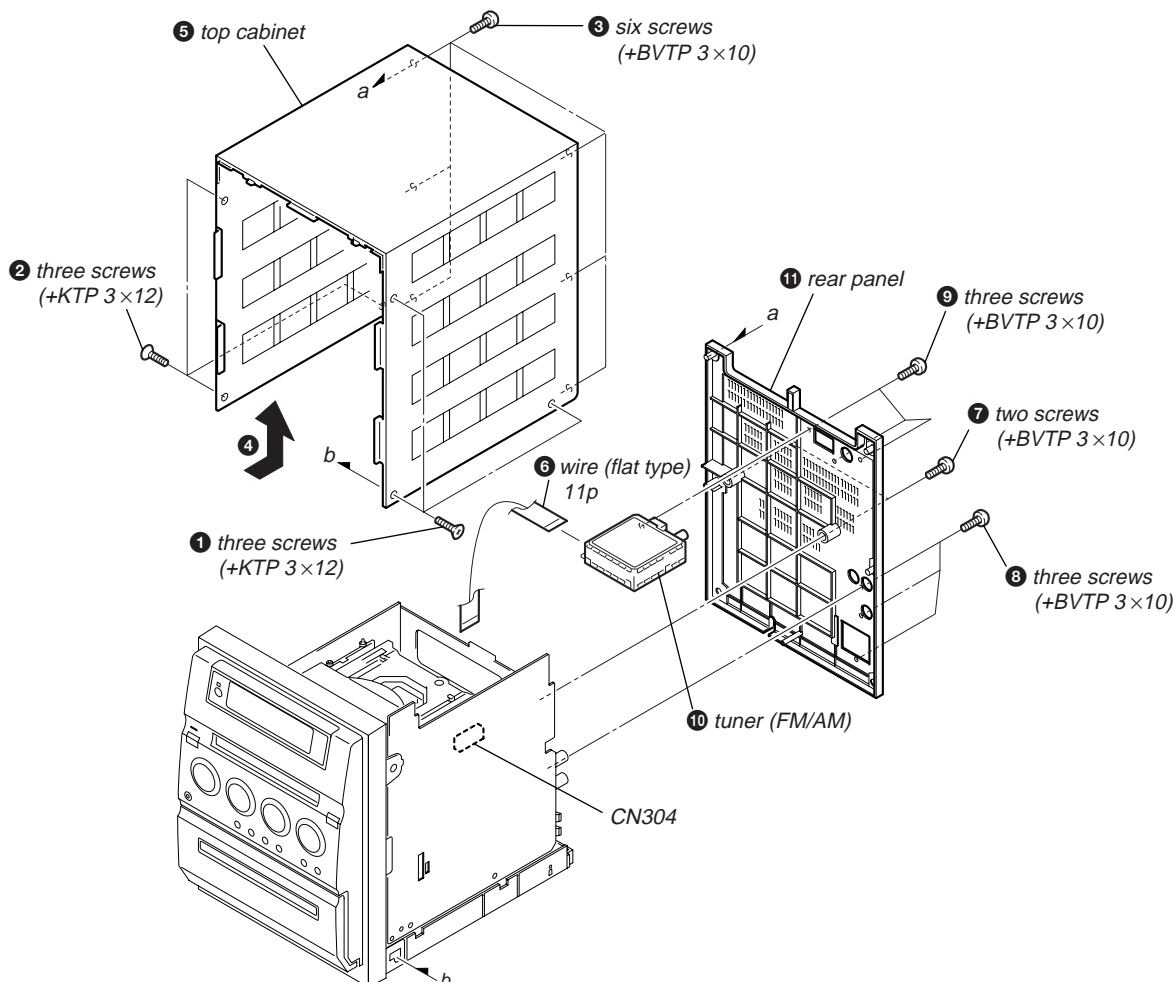
SECTION 3 DISASSEMBLY

- This set can be disassembled in the order shown below.

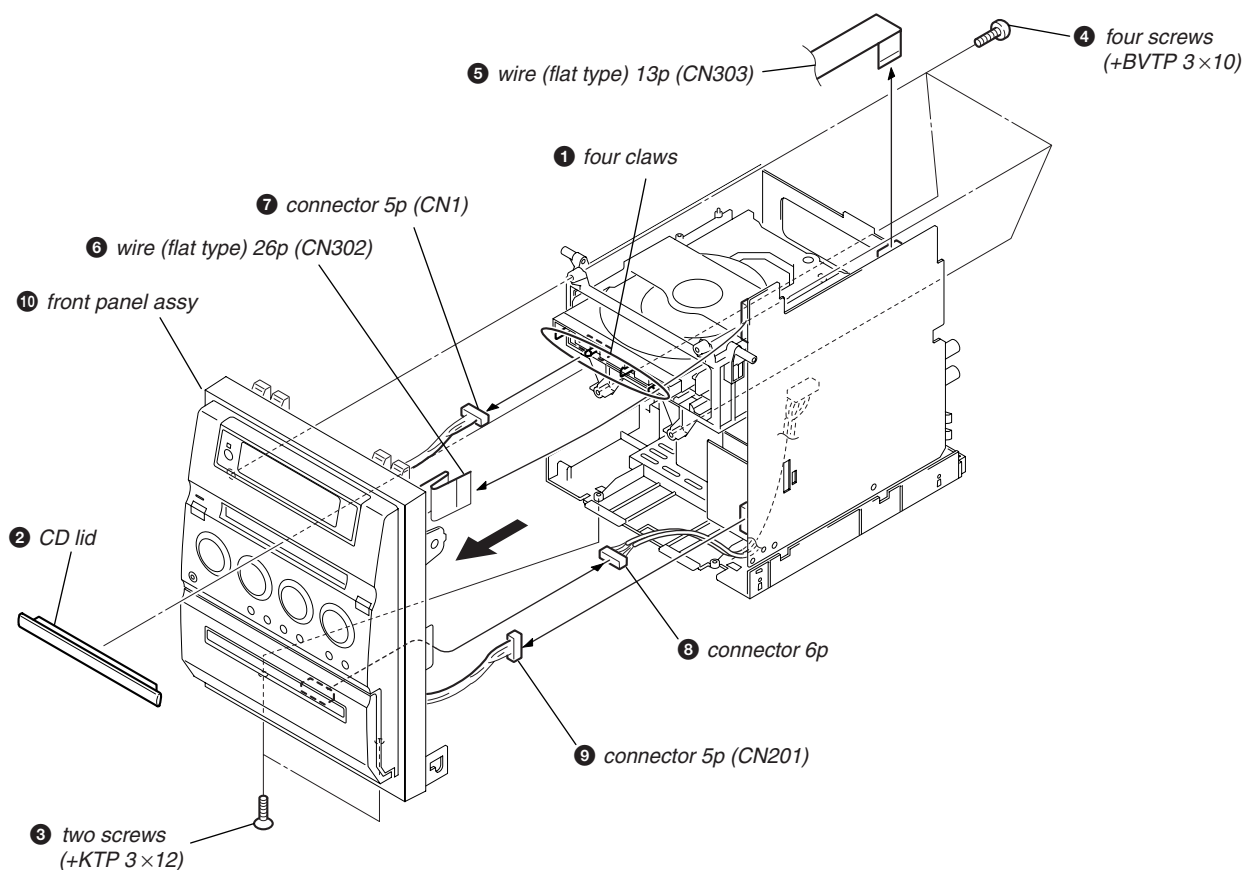


Note: Follow the disassembly procedure in the numerical order given.

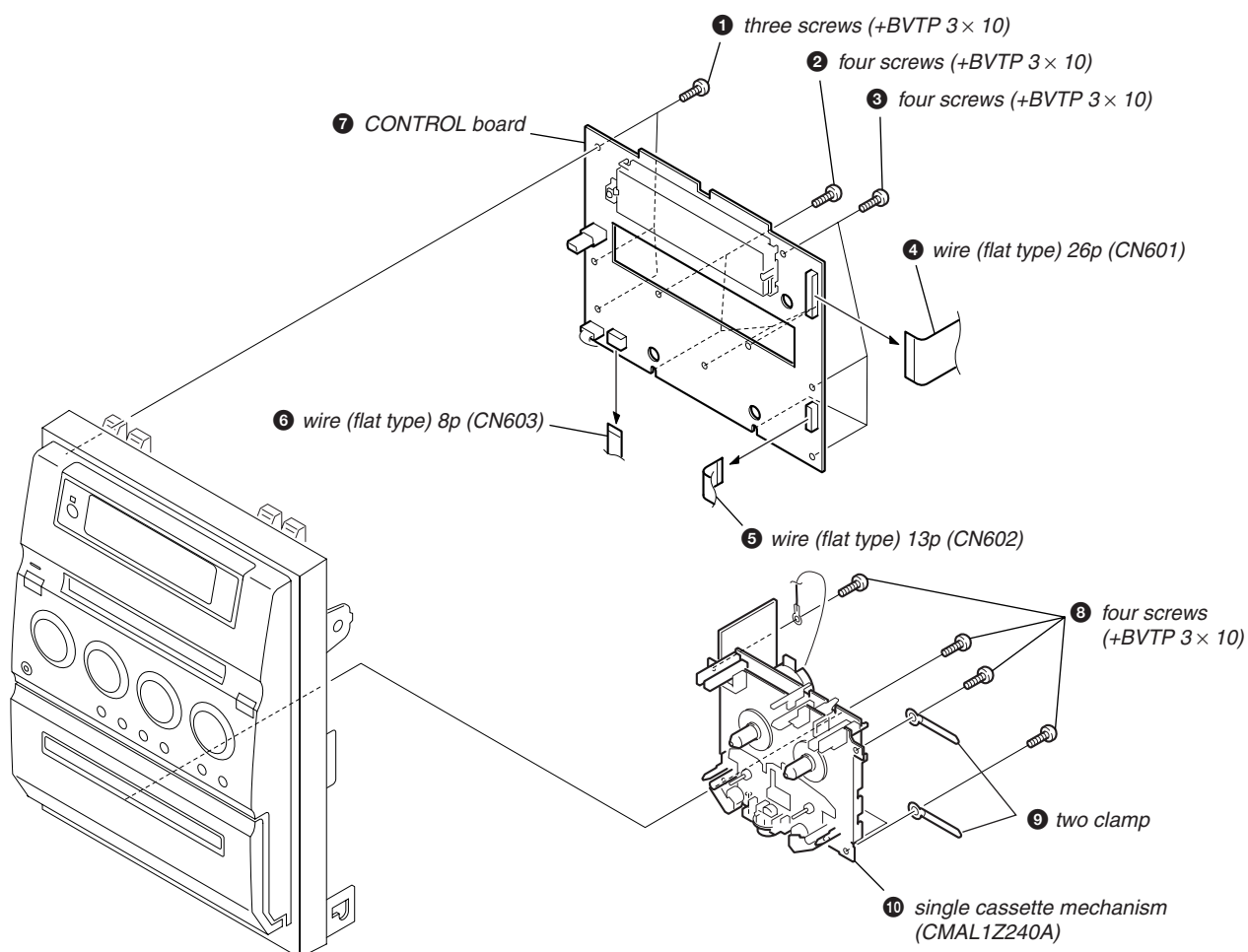
3-1. Top Cabinet, Rear Panel

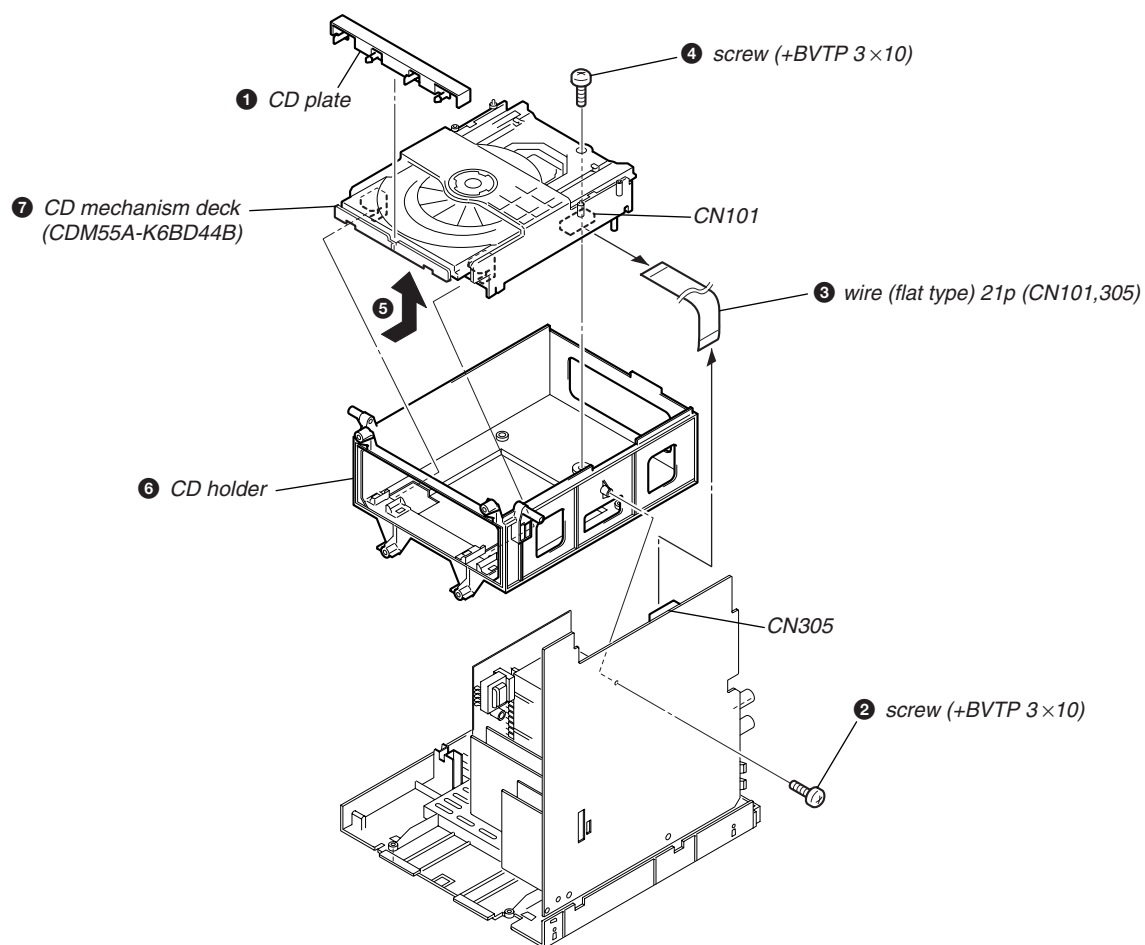


3-2. Front Panel Assy

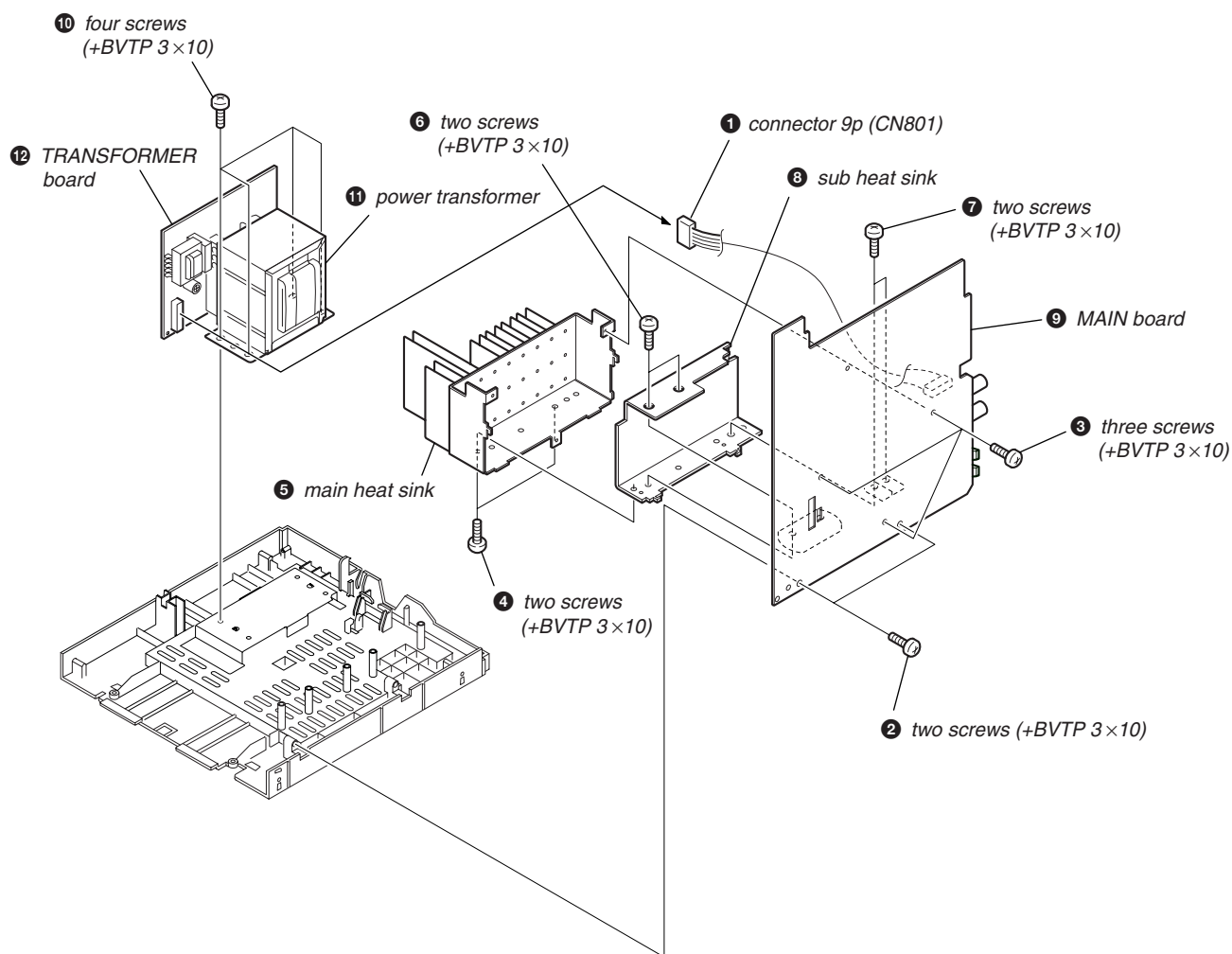


3-3. CONTROL Board, Single Cassette Mechanism

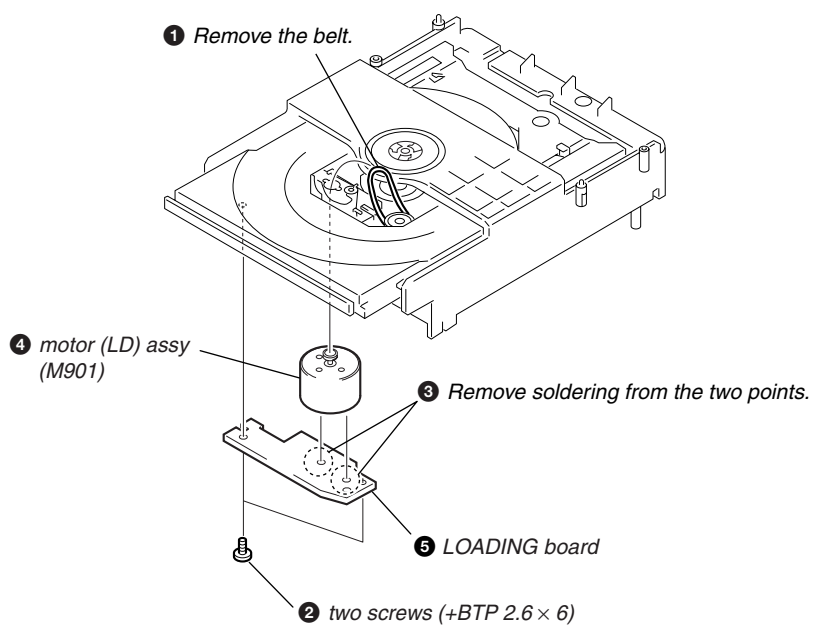


3-4. CD Mechanism Deck (CDM55A-K6BD44B)

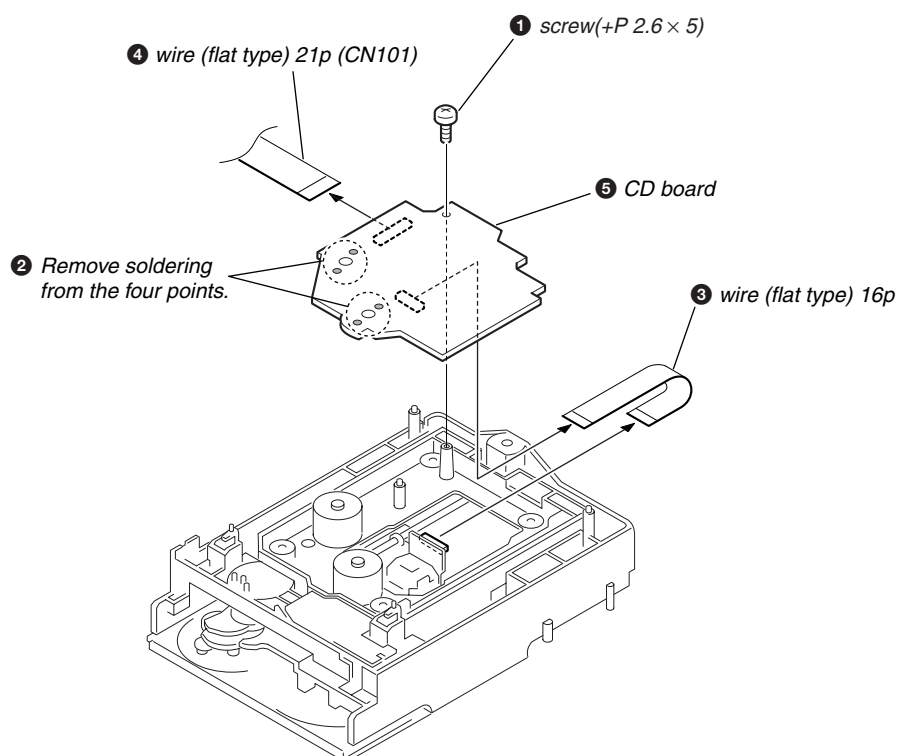
3-5. MAIN Board, TRANSFORMER Board



3-6. LOADING Board

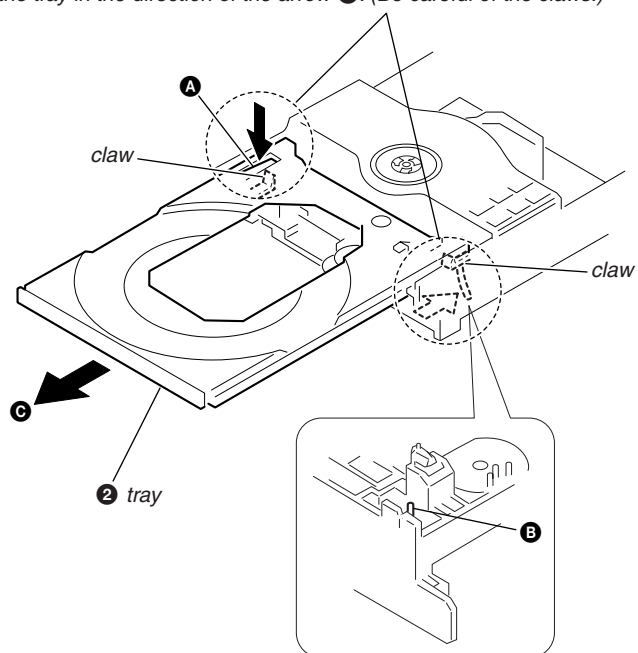


3-7. CD Board

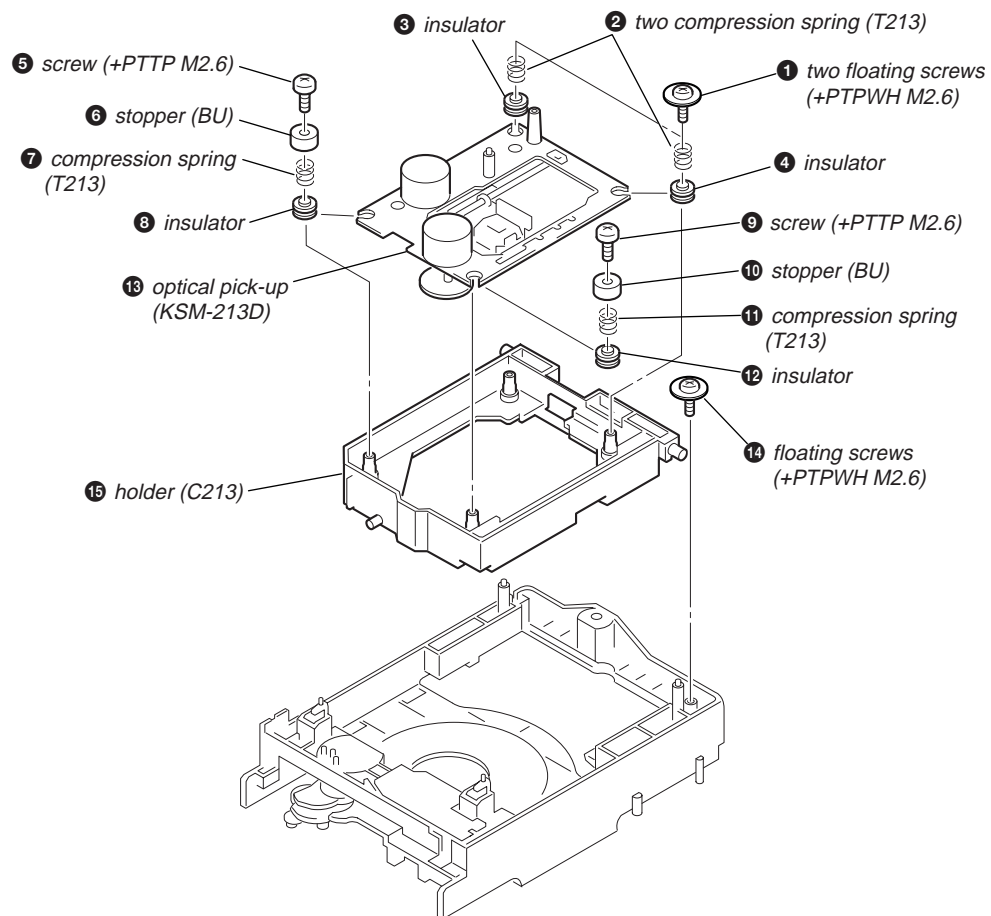


3-8. Tray (CDM55D)

- 1 While pressing the two protrusions A and B to unlock the two claws as shown, pull the tray in the direction of the arrow C. (Be careful of the claws.)



3-9. Optical Pick-up (KSM-213D), Holder (C213)



SECTION 4

MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.04 – 6.96 mN • m (31 to 71 g • cm) (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.20 – 0.58 mN • m (2 to 6 g • cm) (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.04 – 6.96 mN • m (31 to 71 g • cm) (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.20 – 0.58 mN • m (2 to 6 g • cm) (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.97 – 14.02 mN • m (71 to 143 g • cm) (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.8 mN • m or more (100 g • cm or more) (1.4 oz • inch or more)
REV tension	CQ-403R	9.8 mN • m or more (100 g • cm or more) (1.4 oz • inch or more)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION**0 dB=0.775V**

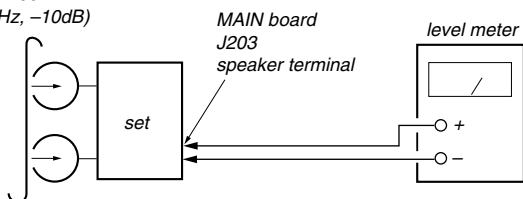
1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

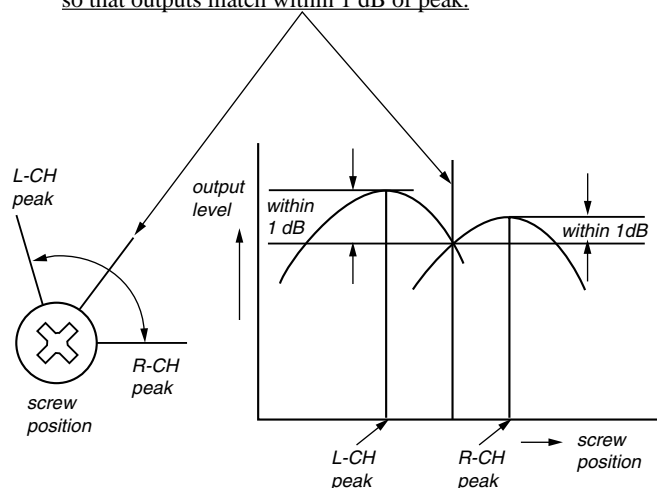
[Record/Playback Head Azimuth Adjustment]**Procedure:**

1. Mode : Playback

test tape
P-4-A100
(10kHz, -10dB)

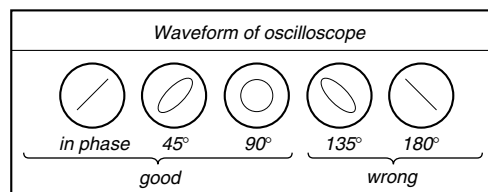
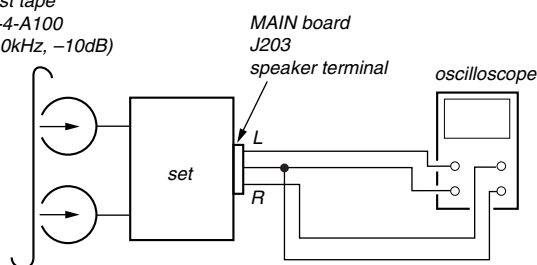


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



3. Mode: Playback

test tape
P-4-A100
(10kHz, -10dB)



4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Record/Playback/Erase Head**[Tape Speed Check]****Procedure:**

1. Turn the power on.
2. Insert the WS-48B into deck.
3. Press the button of deck.
4. Check the reading of frequency counter becomes 3000 ± 90 Hz.

Sample Value of Wow and flutter

W.RMS (JIS) less than 0.3%
(test tape: WS-48B)

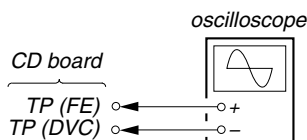
CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10M Ω impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check

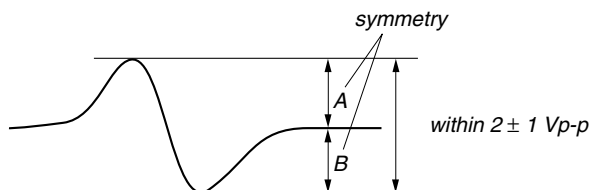
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (FE) and TP (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

S-curve waveform

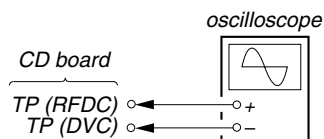


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: CD board (Conductor side)

RFDC Level Check

Connection:

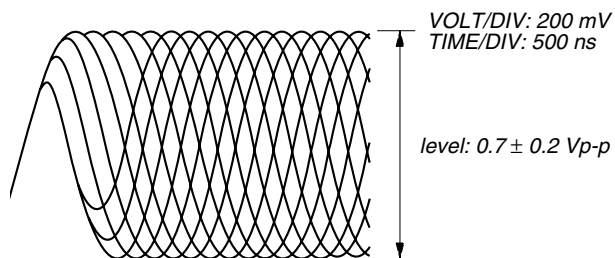


Procedure:

1. Connect an oscilloscope to test point TP (RFDC) and TP (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFDC signal level is correct or not.

Note: A clear RFDC signal waveform means that the shape “ \diamond ” can be clearly distinguished at the center of the waveform.

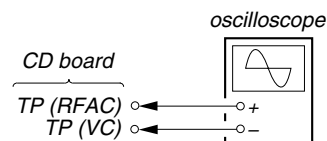
RFDC signal waveform



Checking Location: CD board (Conductor side)

RFAC Level Check

Connection:

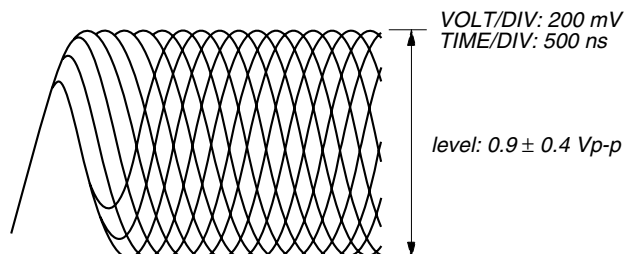


Procedure:

1. Connect an oscilloscope to test point TP (RFAC) and TP (VC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape “ \diamond ” can be clearly distinguished at the center of the waveform.

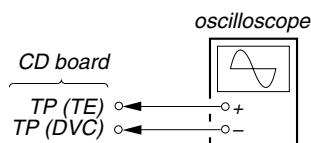
RFAC signal waveform



Checking Location: CD board (Conductor side)

E-F Balance Check

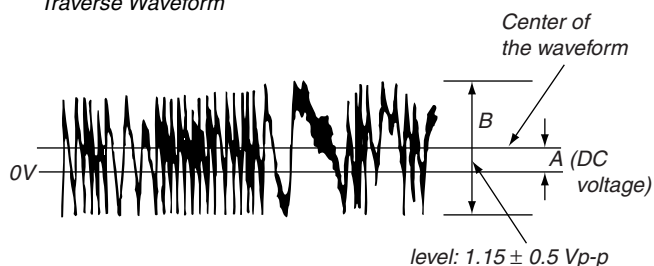
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (TE) and TP (DVC) on the CD board.
2. AC is put in pushing **[CD ▶▶]** button.
3. FL tube carries out all lights and goes into CD test mode.
4. Put the disc (YEDS-18) in to playback the number five track.
5. Press the **[CD ▶▶]** button. (The tracking servo and the sledding servo are turned OFF)
6. Check the level B of the oscilliscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
 $A/B \times 100 = \text{less than } \pm 22\%$

Traverse Waveform

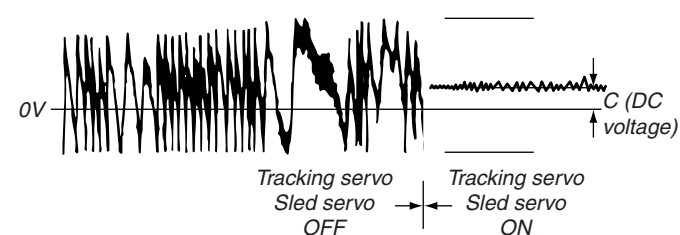


7. Press the **[CD ▶▶]** button. (The tracking servo and sledding servo are turned ON)
 Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 4.
8. To exit from this mode, turn the power off.

Notes:

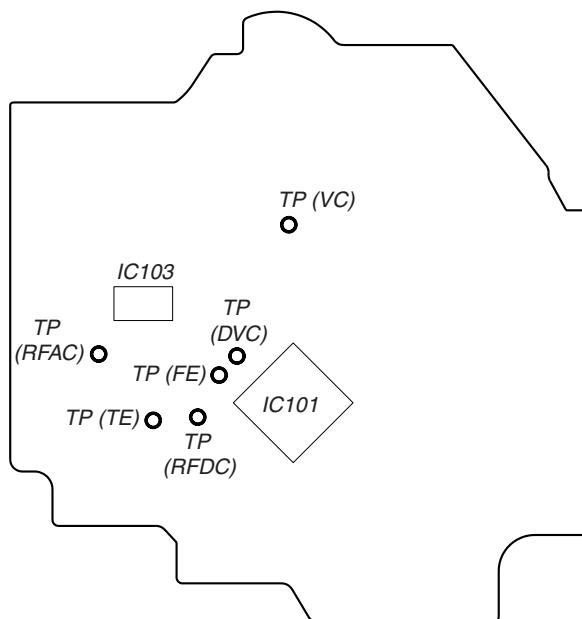
- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Traverse Waveform



Checking Location:

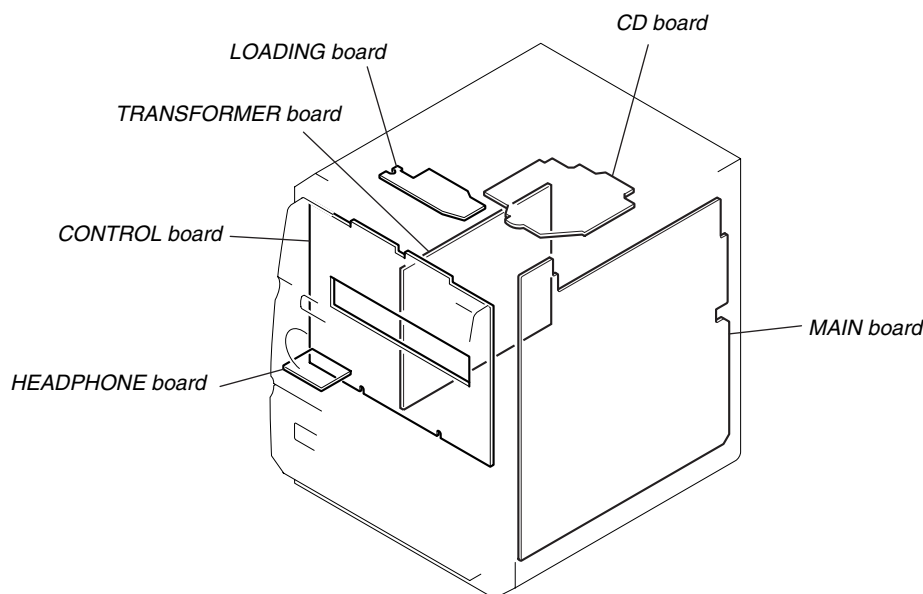
– CD BOARD (Conductor Side) –



Checking Location: CD board (Conductor side)

SECTION 6 DIAGRAMS




• Circuit Boards Location



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
- Δ : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.






Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

-  : B+ Line.
-  : B- Line.




- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : TUNER
 -  : CD
 -  : MD
 -  : PB (TAPE)
 -  : REC (TAPE)

• Abbreviation

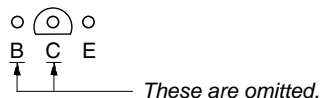
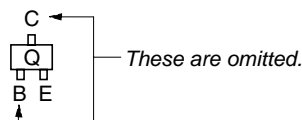
AUS : Australian model
CND : Canadian model
E51 : Chilean and Peruvian models
HK : Hong Kong model
KR : Korean model
SP : Singapore model
TW : Taiwan model

For printed wiring boards.

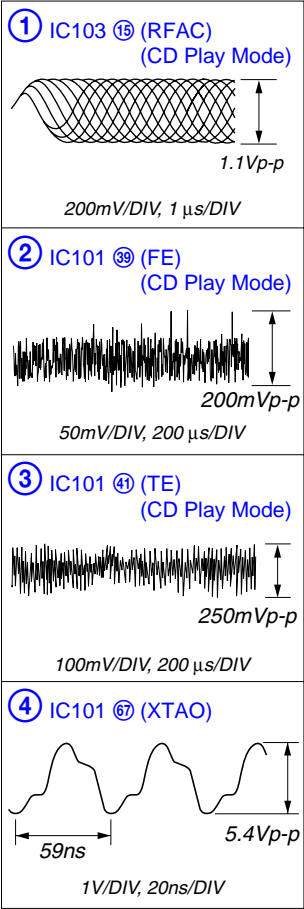
Note:

-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
- Δ : internal component.
-  : Pattern from the side which enables seeing.

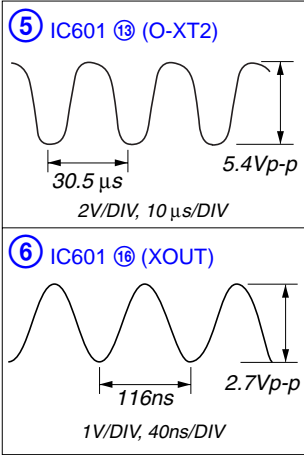
• Indication of transistor



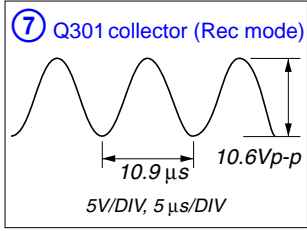
• Waveforms
– CD Board –



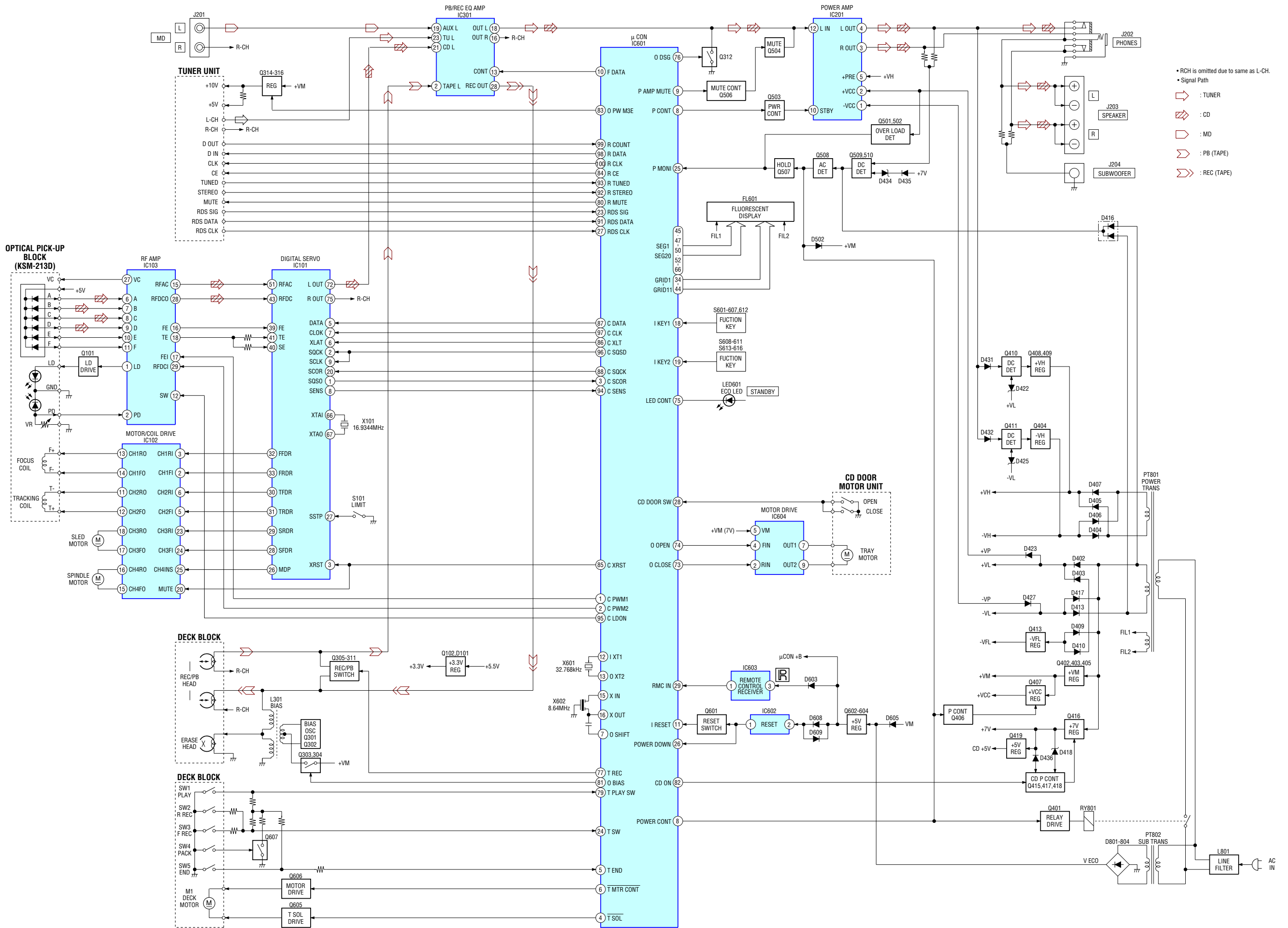
– CONTROL Board –

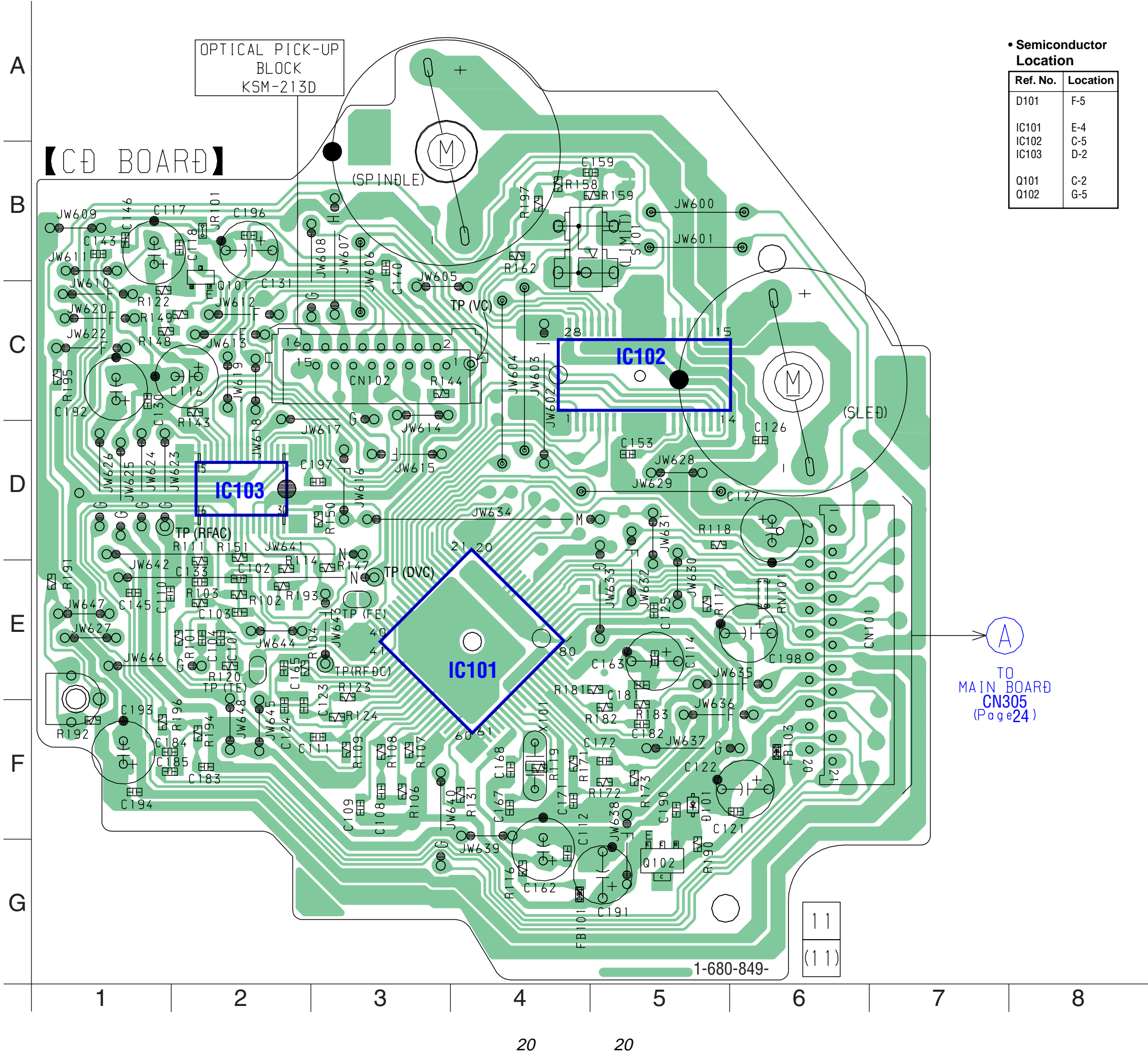


– MAIN Board –

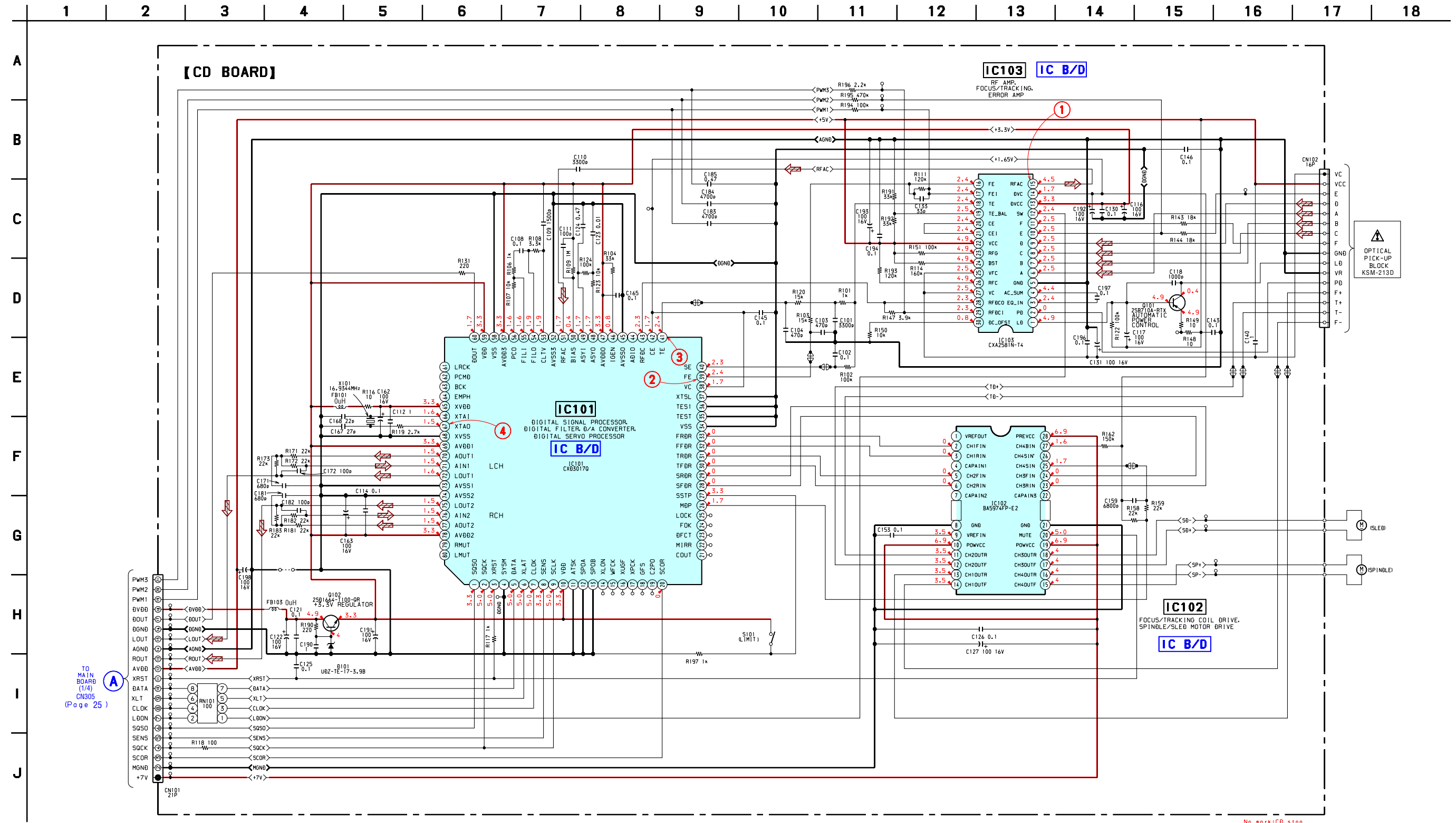


6-1. Block Diagram

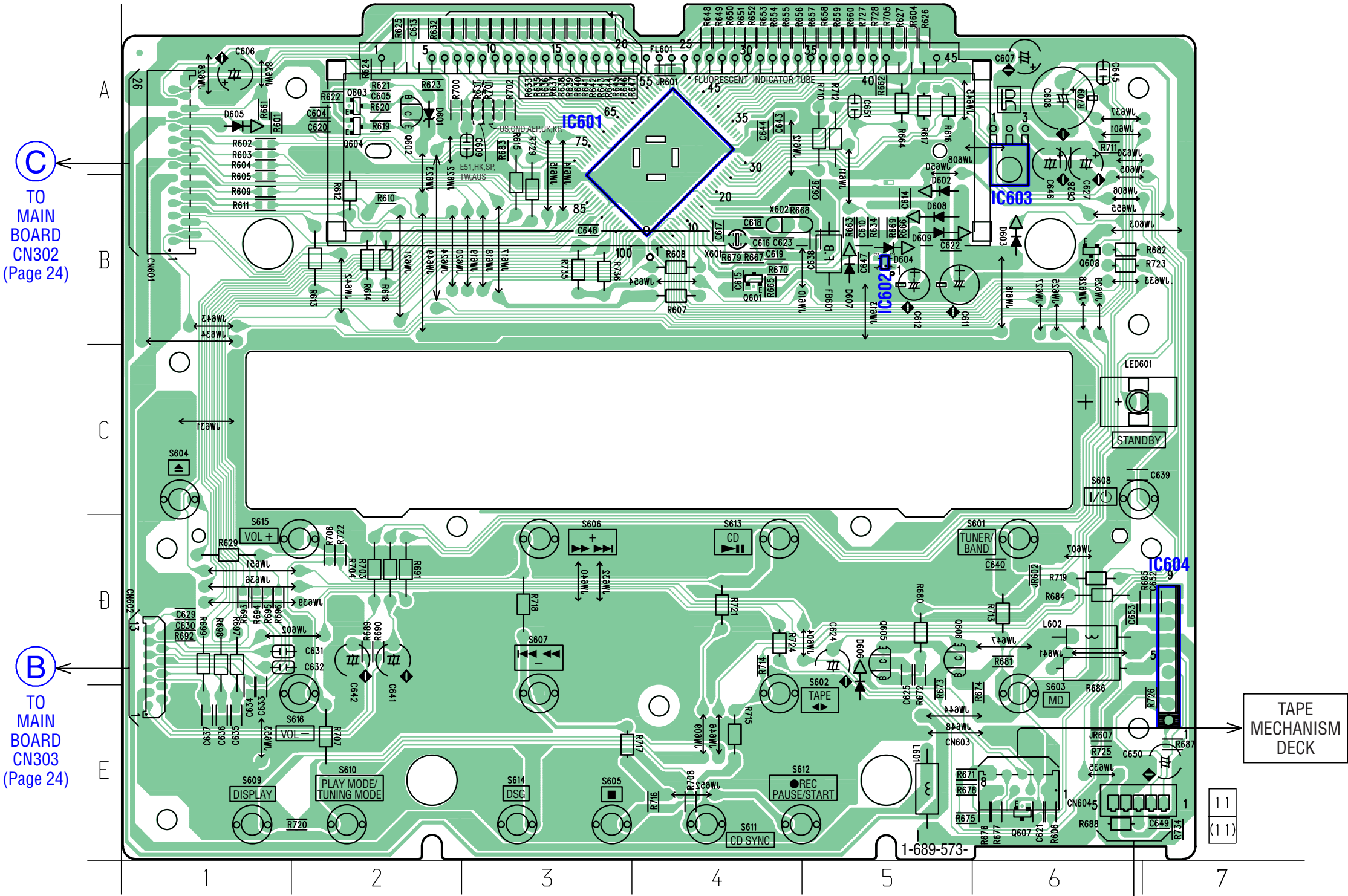




6-3. Schematic Diagram – CD Section – • See page 18 for Waveforms. • See page 31, 32 for IC Block Diagrams.



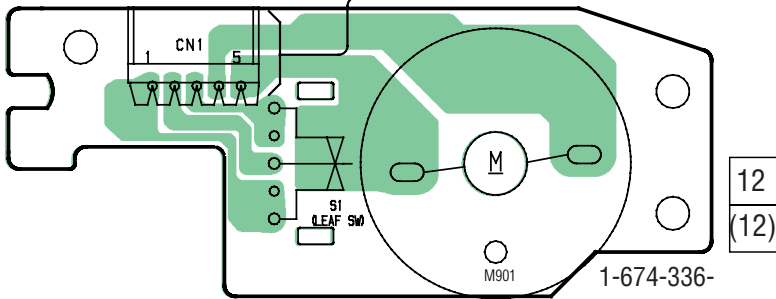
【CONTROL BOARD】



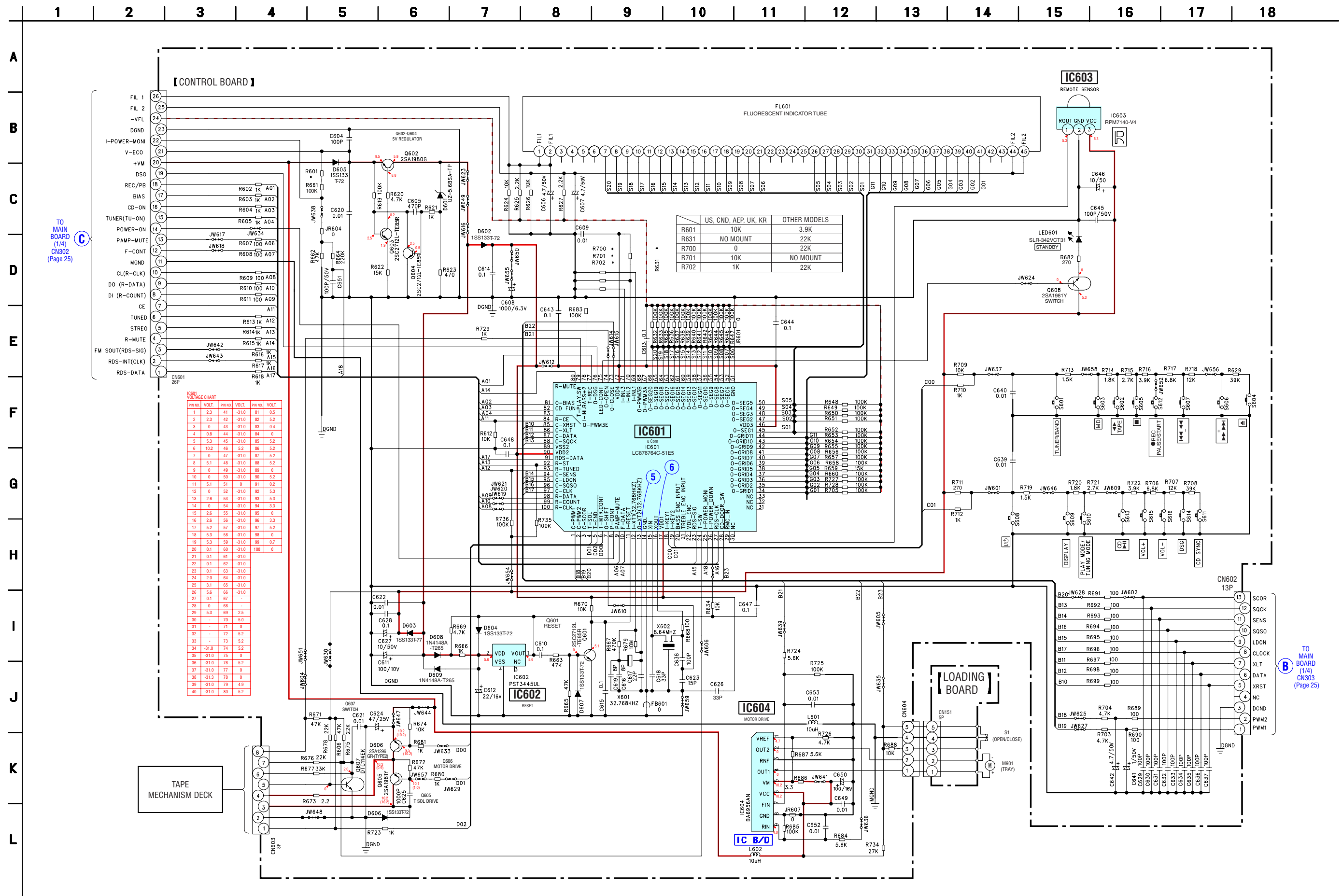
• Semiconductor Location

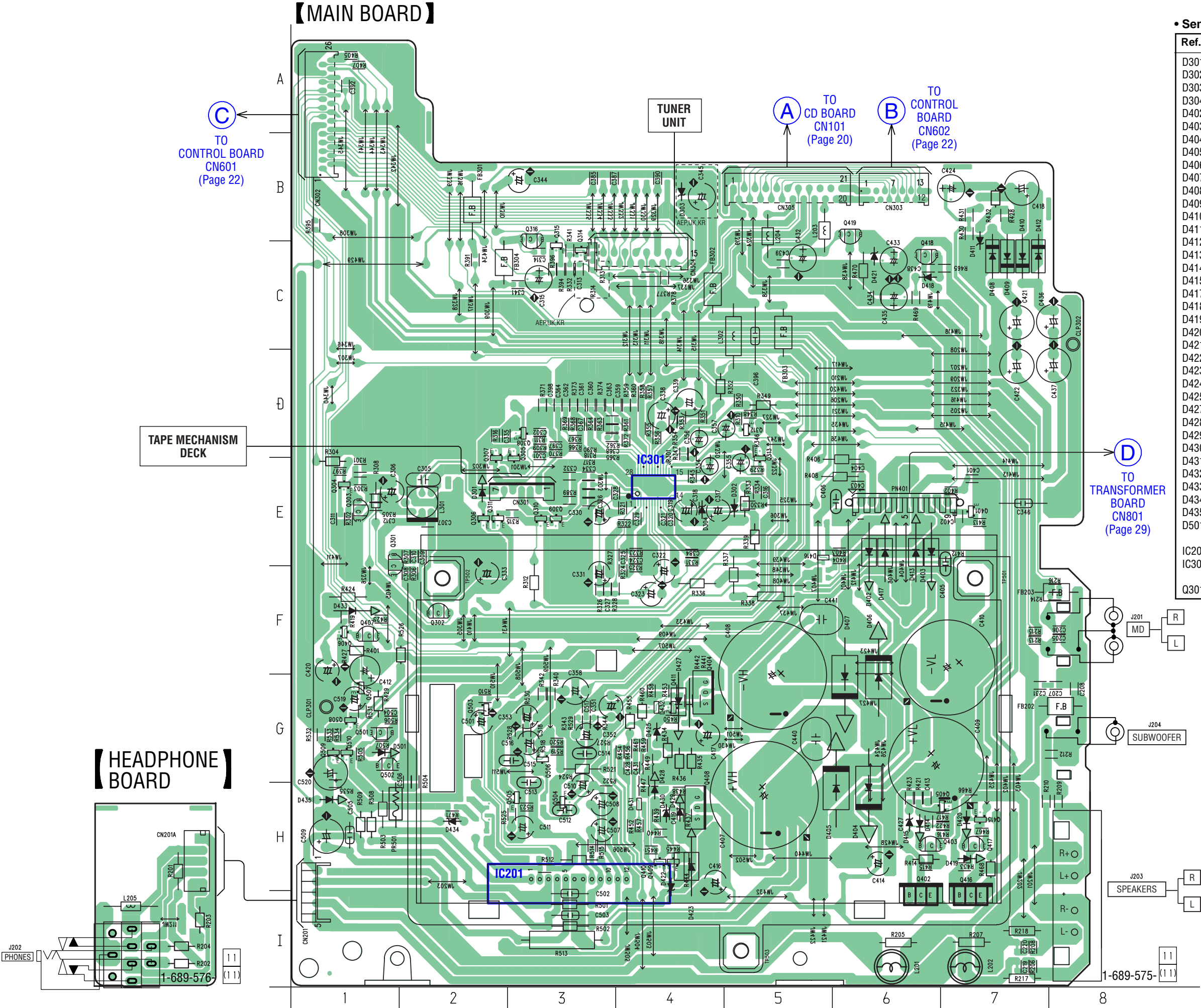
Ref. No.	Location
D601	A-2
D602	B-5
D603	B-6
D604	B-5
D605	A-1
D606	D-5
D607	B-5
D608	B-5
D609	B-5
IC601	A-3
IC602	B-5
IC603	B-6
IC604	D-7
Q601	B-4
Q602	A-2
Q603	A-2
Q604	A-2
Q605	D-5
Q606	D-5
Q607	E-6
Q608	B-6

【LOADING BOARD】



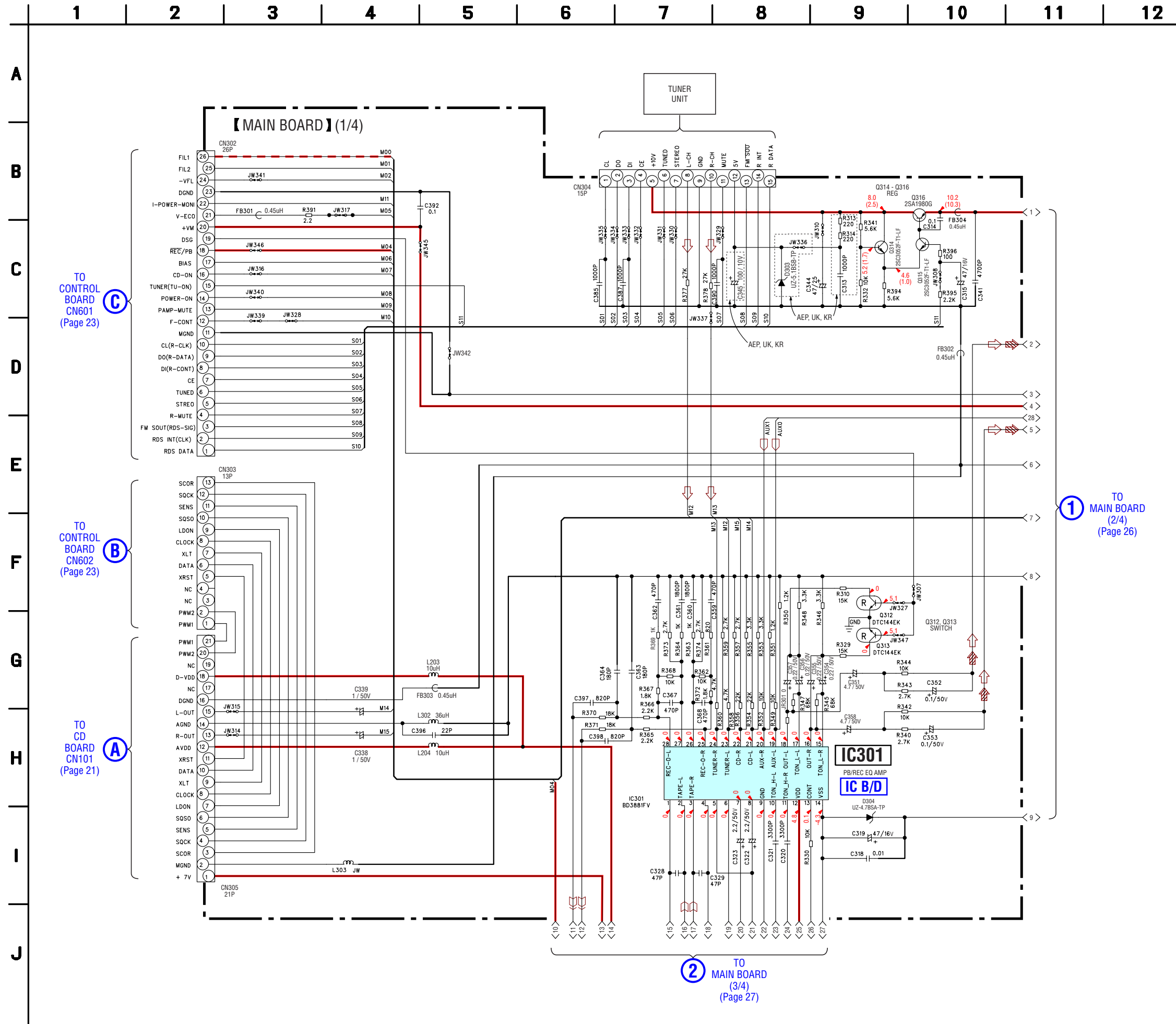
6-5. Schematic Diagram – Control Section –





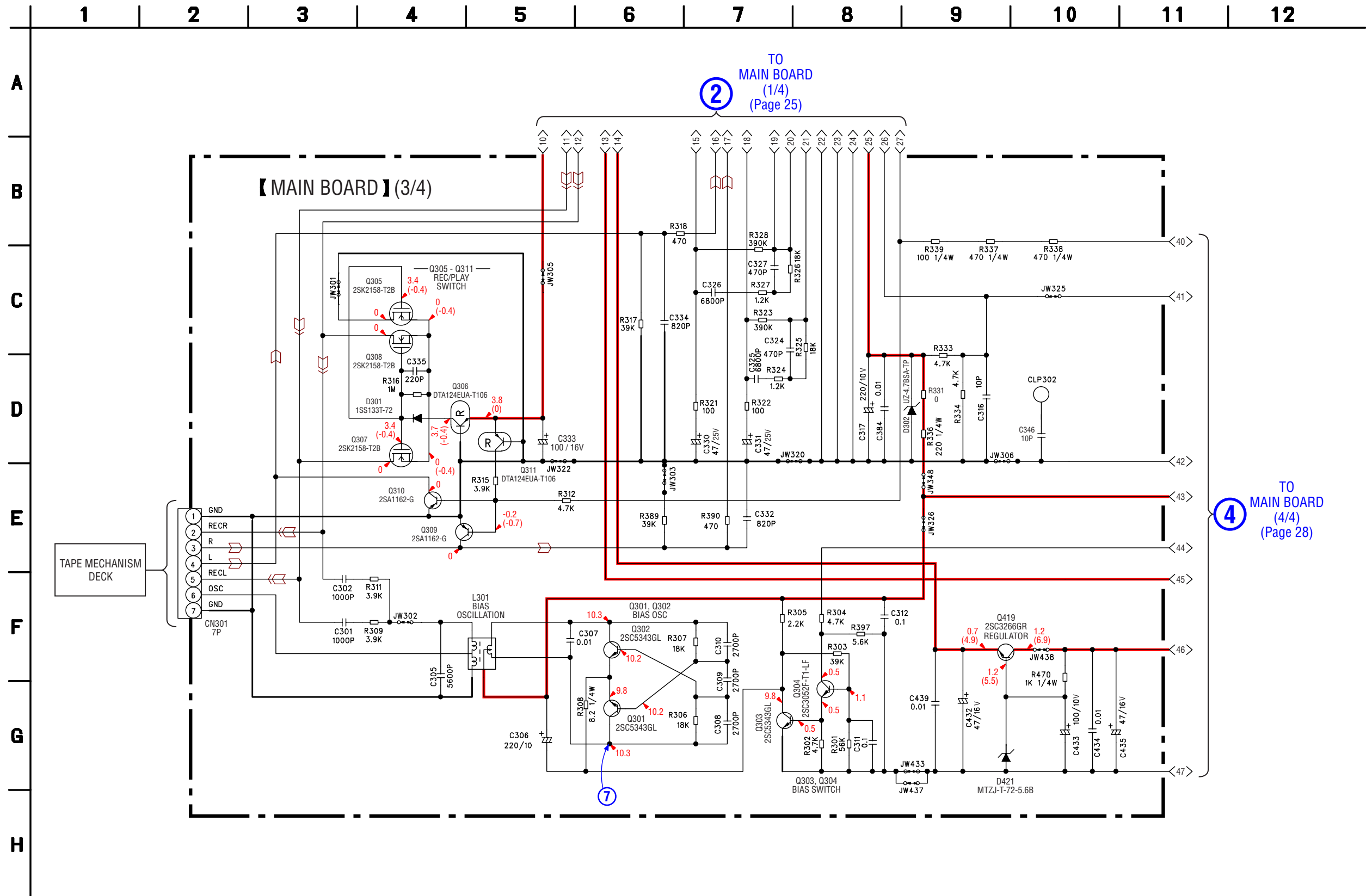
Semiconductor Location			
Ref. No.	Location	Ref. No.	Location
D301	E-2	Q302	F-2
D302	E-5	Q303	E-1
D303	B-4	Q304	E-1
D304	E-4	Q305	E-3
D402	F-6	Q306	E-2
D403	F-6	Q307	E-2
D404	H-6	Q308	D-3
D405	H-6	Q309	E-3
D406	G-6	Q310	E-3
D407	G-6	Q311	E-2
D408	C-7	Q312	D-5
D409	C-7	Q313	E-5
D410	C-7	Q314	C-3
D411	C-7	Q315	C-3
D412	C-7	Q316	C-3
D413	F-6	Q401	E-7
D414	H-6	Q402	I-6
D415	H-6	Q403	H-6
D417	F-6	Q404	G-4
D418	C-6	Q405	H-7
D419	H-7	Q406	F-1
D420	H-7	Q407	F-1
D421	C-6	Q408	H-4
D422	H-4	Q409	H-4
D423	H-4	Q410	H-4
D424	H-4	Q411	G-4
D425	G-4	Q415	H-7
D427	G-4	Q416	I-7
D428	H-4	Q417	H-7
D429	H-4	Q418	C-6
D430	H-4	Q419	C-6
D431	H-4	Q501	G-1
D432	G-4	Q502	G-1
D433	F-1	Q503	G-2
D434	H-2	Q504	H-3
D435	H-1	Q505	H-3
D501	G-1	Q506	G-3
		Q507	G-1
IC201	H-3	Q508	G-1
IC301	E-4	Q509	G-1
		Q510	G-1
Q301	F-1		

6-7. Schematic Diagram – Main Section (1/4) – • See page 33 for IC Block Diagram.



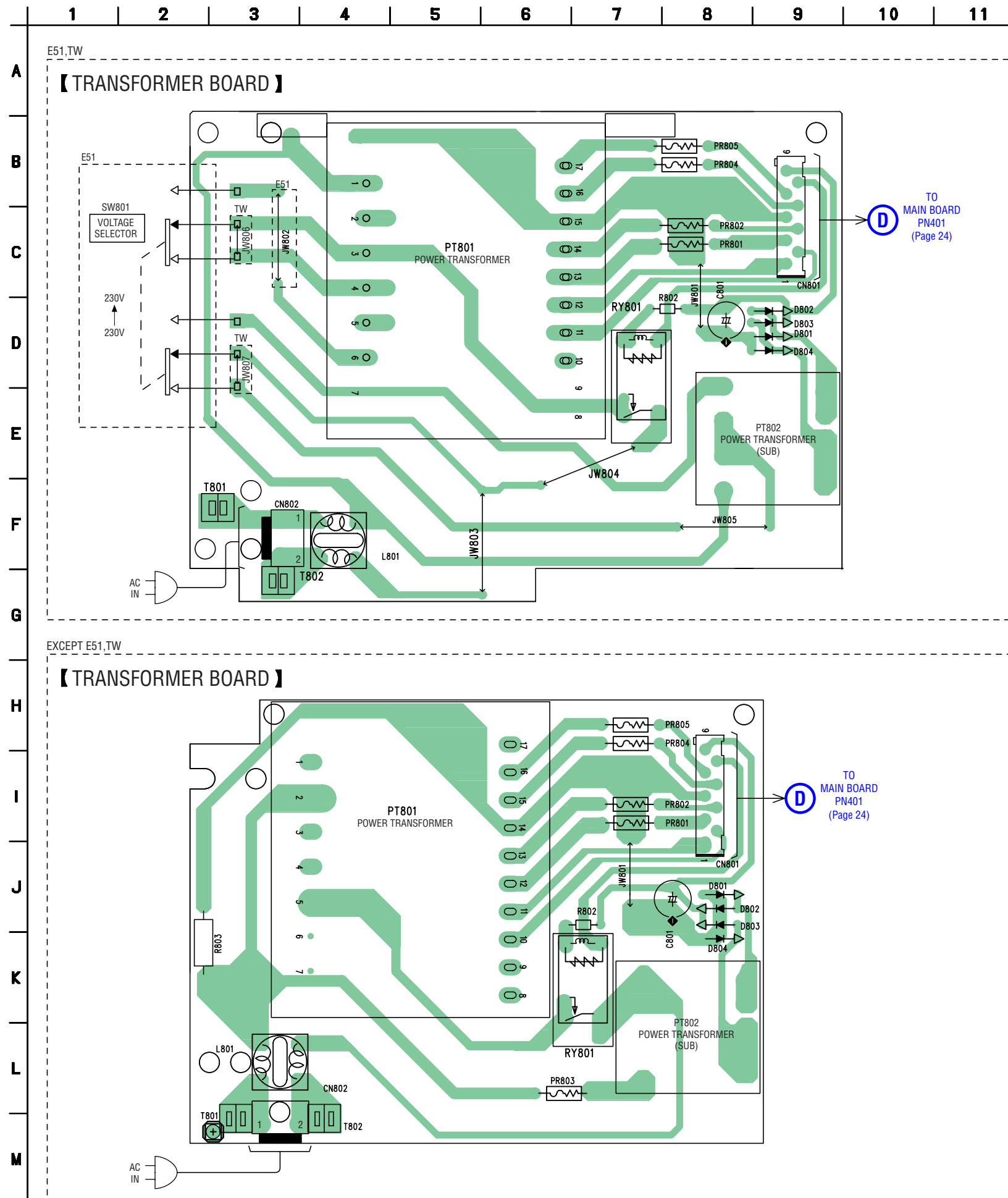


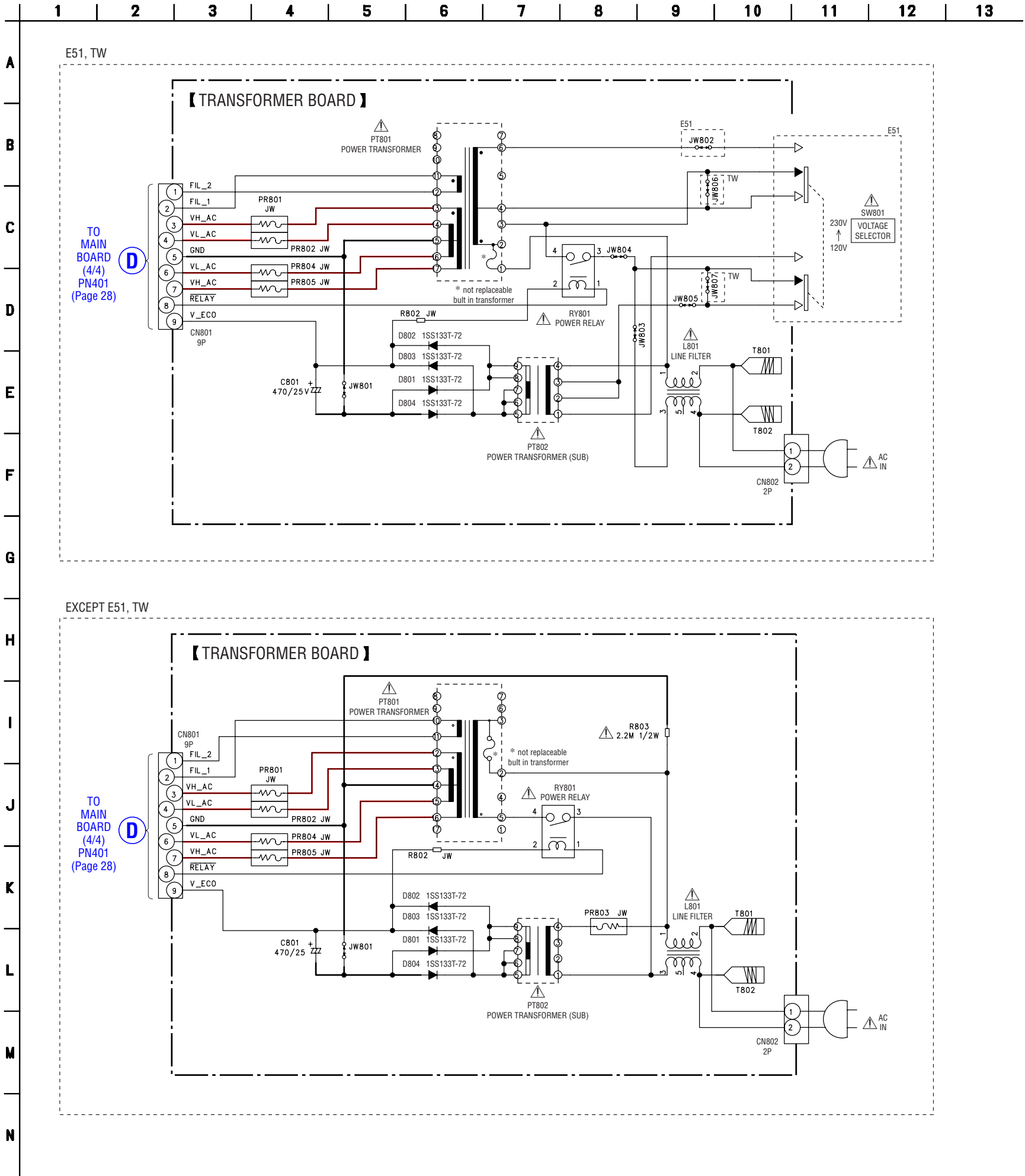
6-9. Schematic Diagram – Main Section (3/4) – • See page 18 for Waveform.





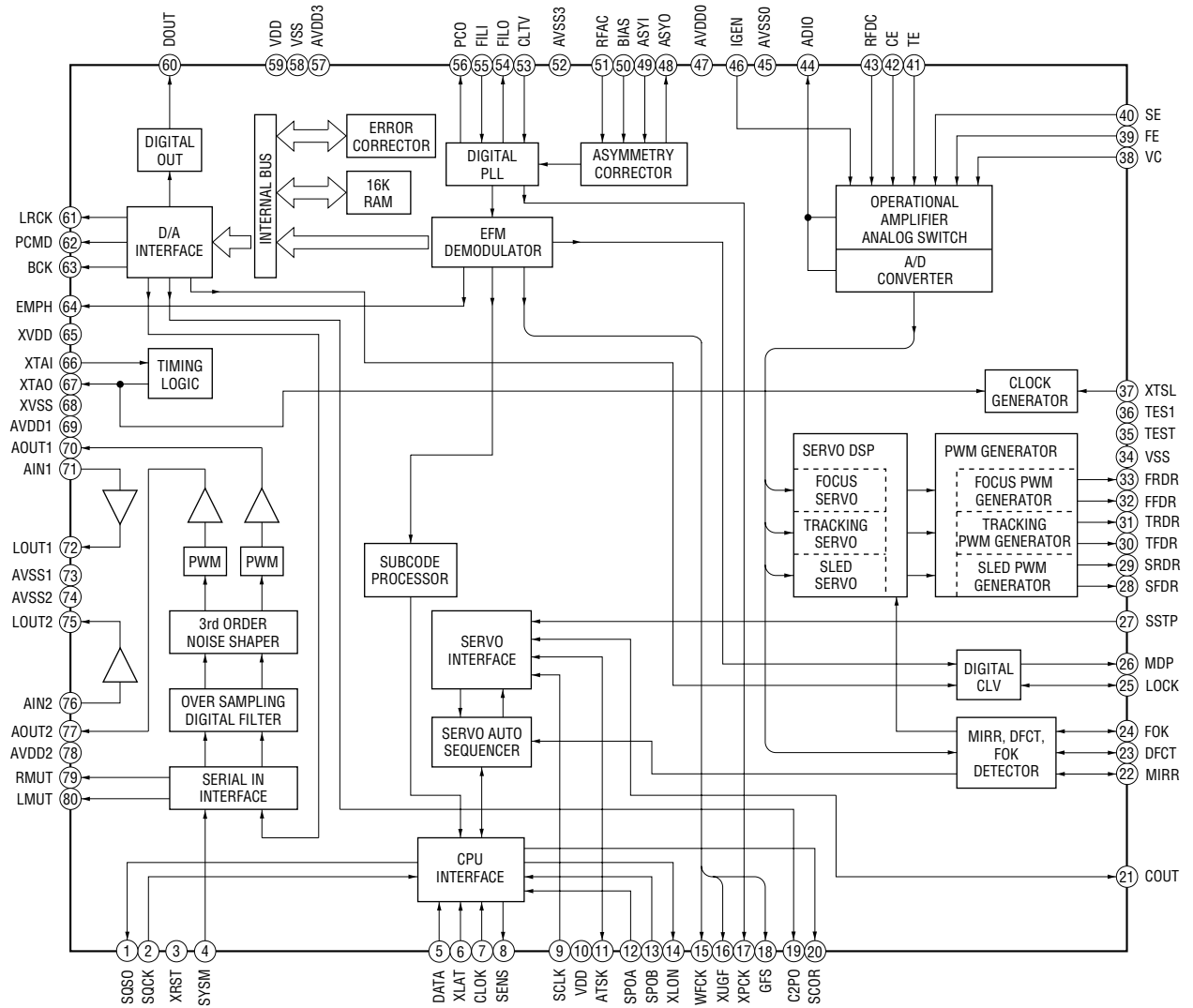
6-11. Printed Wiring Board – Power Section – • See page 17 for Circuit Boards Location.



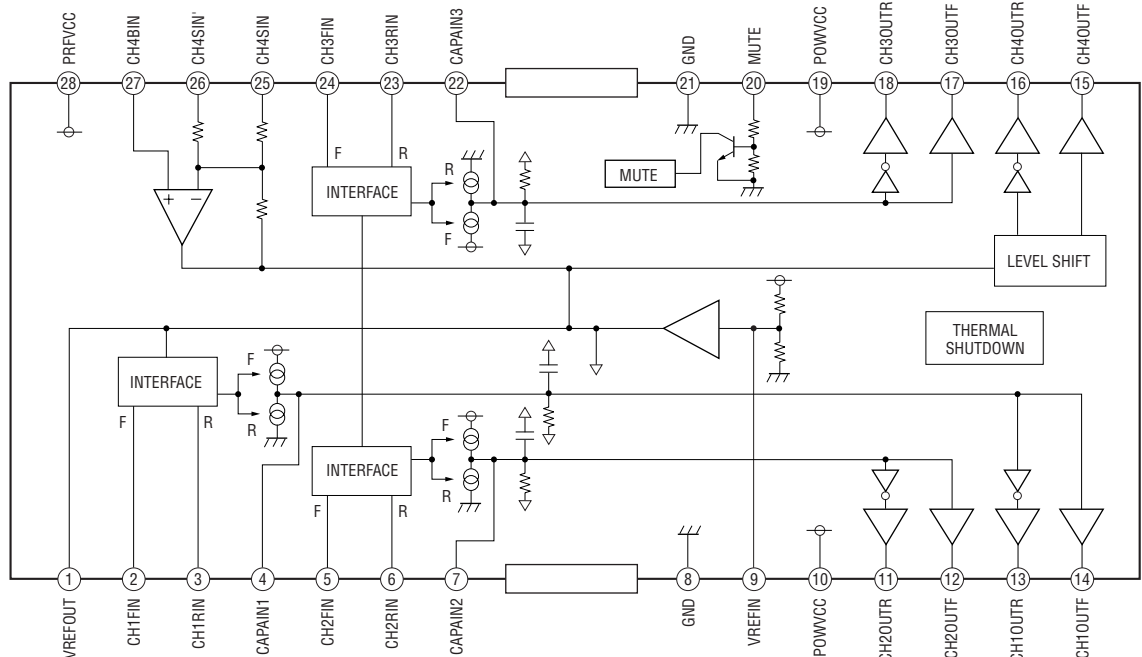


- IC Block Diagrams
- CD Board –

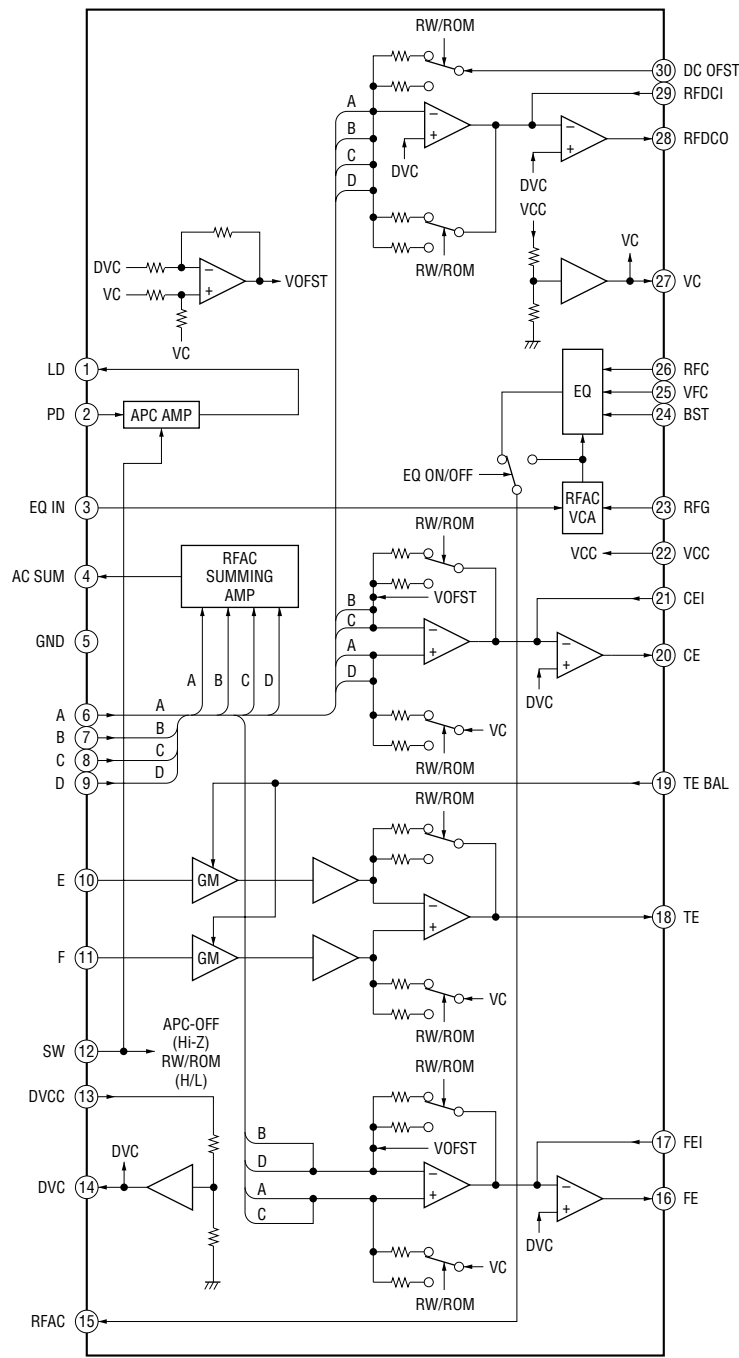
IC101 CXD3017Q



IC102 BA5974FP-E2

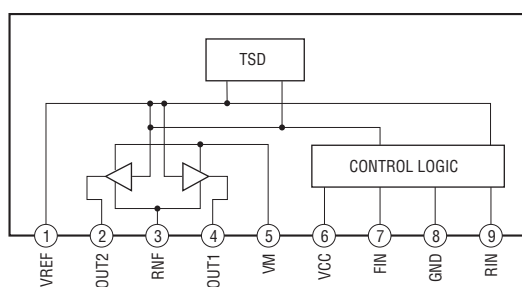


IC103 CXA2581N-T4



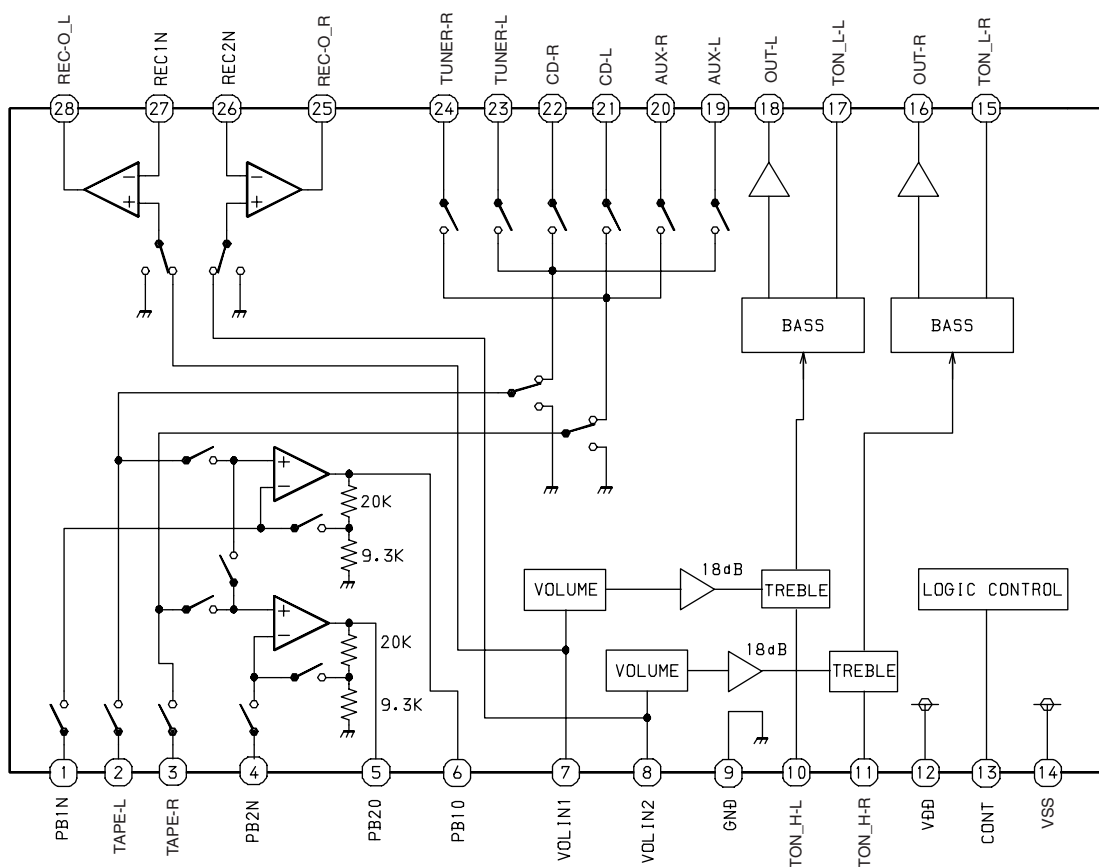
– CONTROL Board –

IC604 BA6956AN

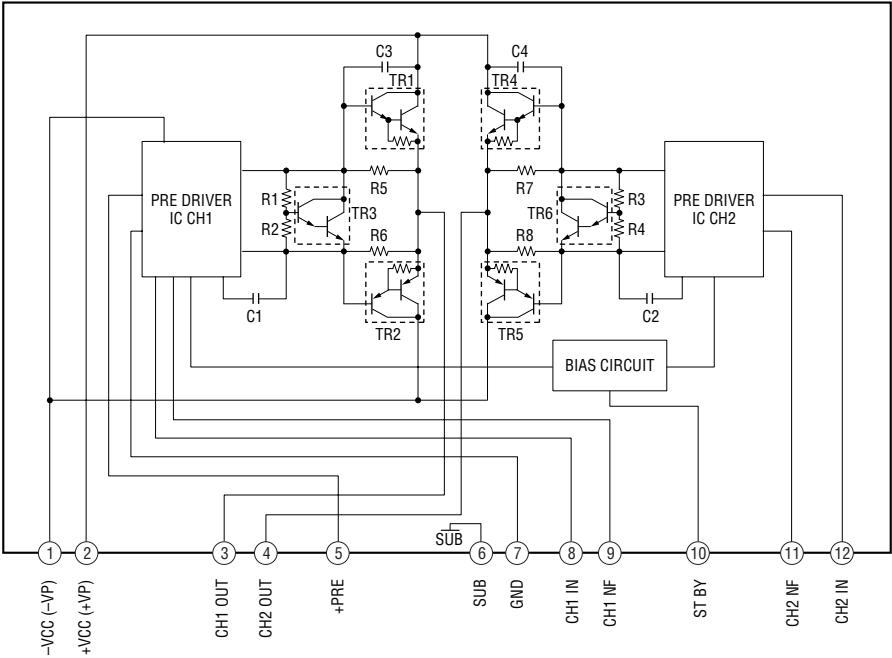


– MAIN Board –

IC301 BD3881FV



IC201 STK403-040



6-13. IC Pin Function Description

IC601 LC876764A-51E5 System Control (CONTROL Board)

Pin No.	Pin Name	I/O	Description
1	C-PWM1	O	PWM1 signal output to the CD unit
2	C-PWM2	O	PWM2 signal output to the CD unit
3	C-SCOR	I	SCOR (SUBQ request) signal output to the CD unit
4	T-SOL	O	Solenoid control signal output to the tape deck
5	T-END	I	Tape deck reel switch signal input
6	T-MTR.CONT	O	Motor control signal output to the tape deck
7	O-SHIFT	O	Clock shift control signal output
8	P-CON	O	Power relay control signal output
9	PAMP-MUTE	O	Muting control signal output to the power amplifier
10	F-DATA	O	Control signal output to the sound processor
11	I-RESET	I	Reset signal input from the reset IC (IC603)
12	I-XT1	I	Resonator terminal (32.768kHz)
13	O-XT2	O	Resonator terminal (32.768kHz)
14	GND.	—	Ground terminal
15	XIN	I	Resonator terminal (8.64MHz)
16	XOUT	O	Resonator terminal (8.64MHz)
17	VDD1	—	Power supply terminal
18	I-KEY1	I	Key AD input 1
19	I-KEY2	I	Key AD input 2
20	BASS ENC INPUT	I	Encoder signal input from the bass encoder
21	TRBLE ENC INPUT	I	Encoder signal input from the treble encoder
22	VOL-ENC	I	Encoder signal input from the volume encoder
23	RDS-SIG	I	RDS signal level input from the tuner
24	T-SW	I	Tape switch status signal input from the tape deck (SW2 to 4)
25	I-POWER MONI	I	Power amplifier overload monitoring signal input
26	I-POWER DOWN	I	Power down detection signal input
27	RDS-CLK	I	RDS clock input from the tuner
28	CD-DOOR-SW	I	CD door open/close switch signal input
29	RMC-IN	I	Remote sensor signal input
30 to 33	NC	—	Not used (open)
34 to 44	O-GRID1 to 11	O	Grid signal output to the fluorescent indicator tube
45	O-SEG1	O	Segment signal output to the fluorescent indicator tube
46	VDD3	—	Power supply terminal
47 to 50	O-SEG2 to 5	O	Segment signal output to the fluorescent indicator tube
51	GND.	—	Ground terminal
52 to 66	O-SEG6 to 20	O	Segment signal output to the fluorescent indicator tube
67, 68	NC	—	Not used (open)
69 to 71	I-INI-1 to 3	I	Initial selection signal input
72	VDD4	—	Power supply terminal
73	O-CLOSE	O	CD tray close control signal output
74	O-OPEN	O	CD tray open control signal output
75	LED-CONT	O	Standby LED control signal output
76	O-DSG	O	Not used (open)
77	T-REC	O	REC/PLAY control signal output to the REC/PLAY switch circuit
78	I-INI.BASS+2	—	Not used (fixed at "L")
79	T-PLAY.SW	I	Play switch signal input from the tape deck
80	R-MUTE	O	Muting signal output to the tuner
81	O-BIAS	O	Bias control signal output to the bias oscillation circuit
82	CD-FUN	O	CD power supply control signal output
83	O-PWM3E	O	Tuner power supply control signal output

Pin No.	Pin Name	I/O	Description
84	R-CE	O	Tuner chip enable signal output to the tuner
85	C-XRST	O	Reset signal output to the CD unit
86	C-XLT	O	Latch signal output to the CD unit
87	C-DATA	O	Data output to the CD unit
88	C-SQCK	O	SUBQ clock output to the CD unit
89	VSS2	—	Ground terminal
90	VDD2	—	Power supply terminal
91	RDS-DATA	I	RDS data input from the tuner
92	R-ST	I	Stereo/mono detection signal input from the tuner
93	R-TUNED	I	Tuner tuned status signal input
94	C-SENS	I	SENS signal input from the CD unit
95	C-LDON	O	LD ON signal output to the CD unit
96	C-SQSO	I	SUB-Q data input from the CD unit
97	C-CLK	O	Clock output to the CD unit
98	R-DATA	O	Data output to the tuner
99	R-COUNT	I	IF count signal input from the tuner
100	R-CLK	O	Clock signal output to the tuner

SECTION 7 EXPLODED VIEWS

NOTE:

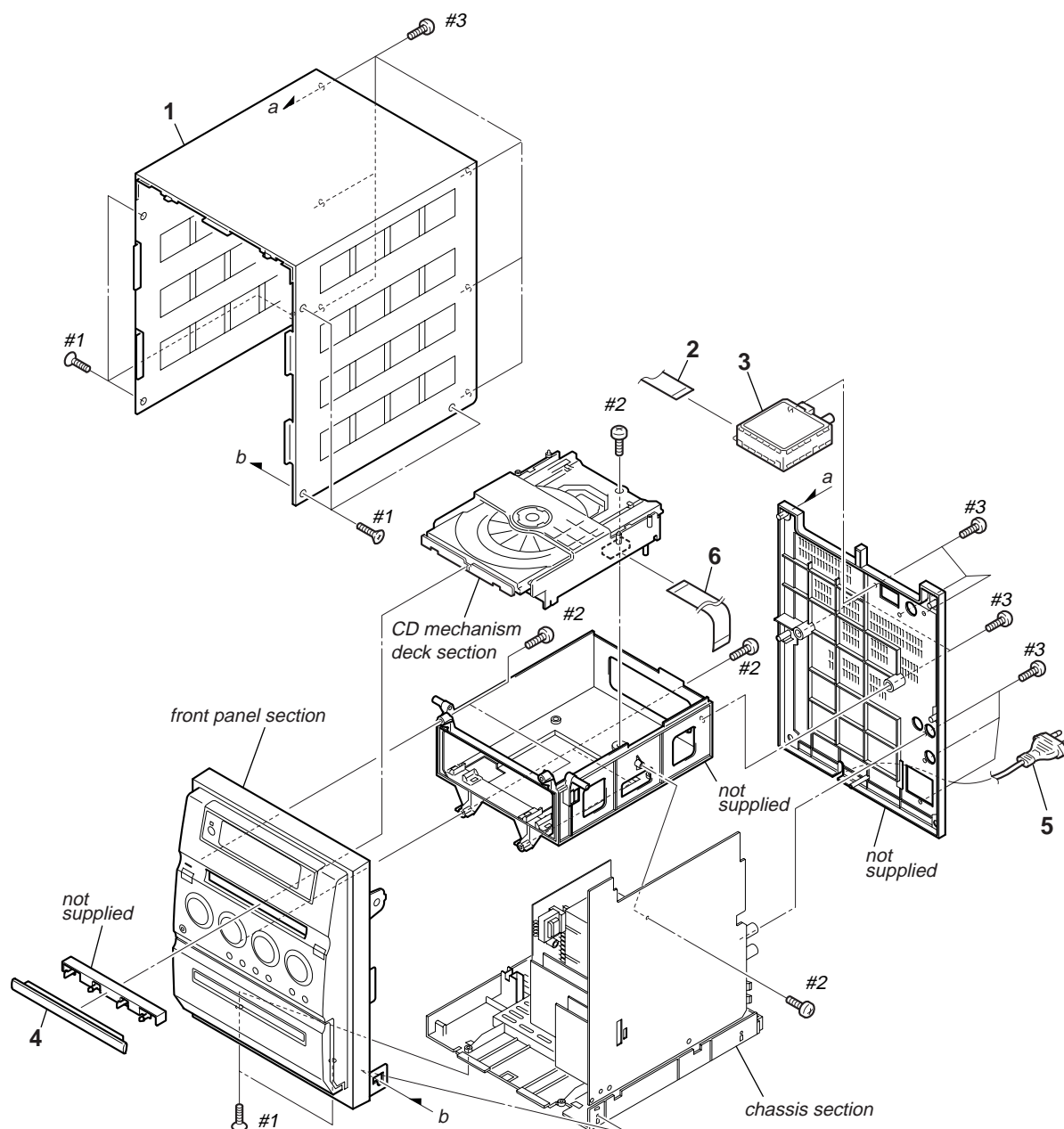
- XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Abbreviation
AUS : Australian model
CND : Canadian model
E51 : Chilean and Peruvian models
HK : Hong Kong model
KR : Korean model
SP : Singapore model
TW : Taiwan model

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

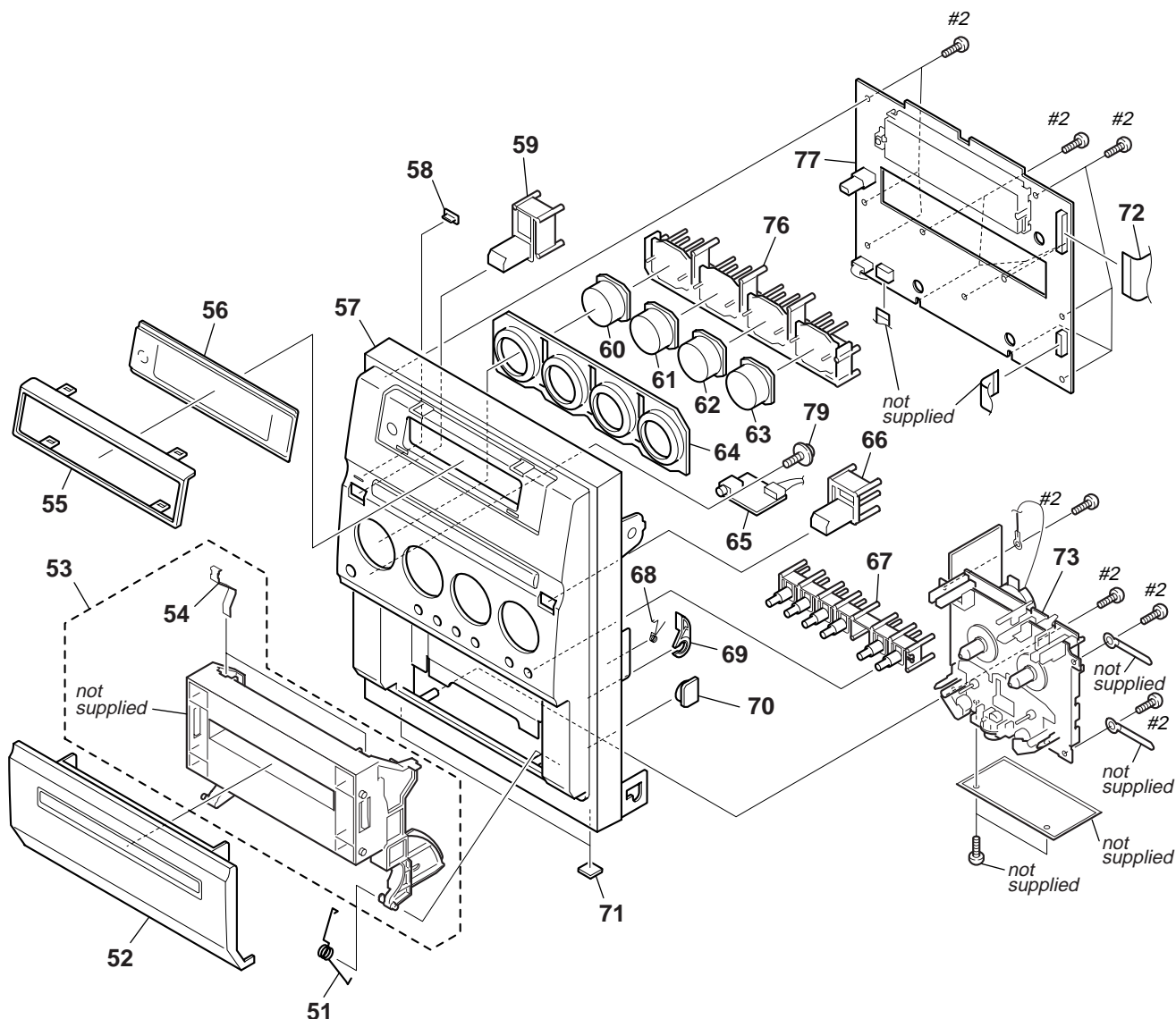
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. Overall Section



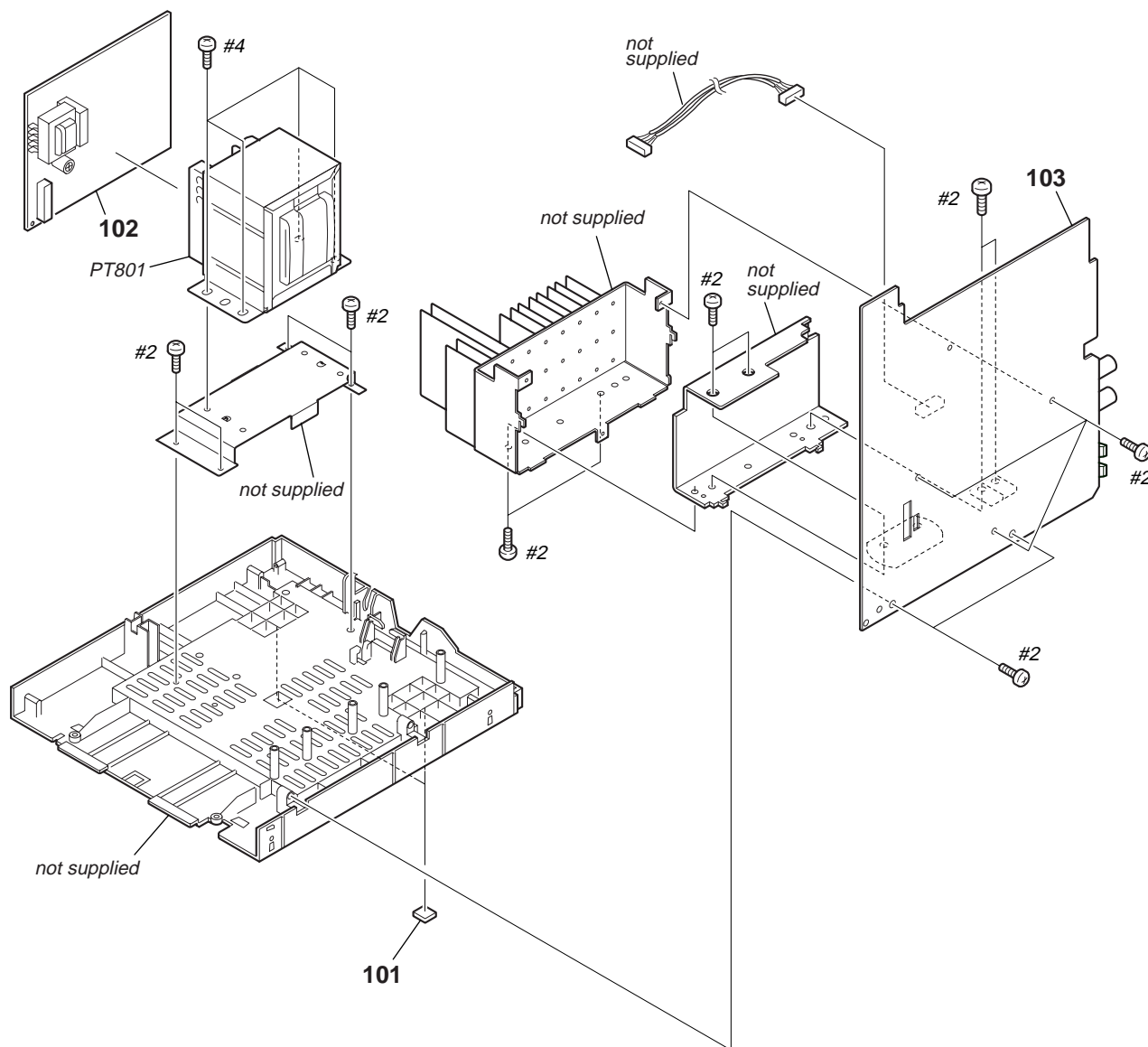
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-247-756-01	CABINET, TOP (US,CND,AEP,UK,KR)		Δ 5	1-555-795-00	CORD, POWER (EXCEPT US,CND,TW,KR)	
1	4-247-756-21	CABINET, TOP (AUS,E51,HK,SP,TW)		Δ 5	1-769-079-22	CORD, POWER (KR)	
2	1-827-731-11	WIRE (FLAT TYPE)(11 CORE)(EXCEPT AEP,UK)		Δ 5	1-783-532-11	CORD, POWER (US,CND,TW)	
2	1-828-984-11	WIRE (FLAT TYPE)(15 CORE)(AEP,UK)		6	1-827-714-11	WIRE (FLAT TYPE)(21 CORE)	
3	1-693-619-11	TUNER (FM/AM)(AEP,UK,KR)		#1	7-685-248-14	SCREW +KTP 3X12 TYPE2 NON-SLIT	
3	1-693-620-11	TUNER (FM/AM)(AUS,E51,HK,SP,TW)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 NON-S	
3	1-693-624-11	TUNER (FM/AM)(US,CND)		#3	7-685-647-14	SCREW +BVTP 3X10 TYPE2 NON-S	
4	4-247-367-01	LID,CD					

7-2. Front Panel Section



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-247-757-01	SPR-T,CASS		66	4-247-369-01	BUTTON,OPEN/CLOSE	
52	X-4955-860-1	LID TC ASSY		67	4-247-368-01	BUTTON,FUNCTION	
53	X-4955-859-1	HOLDER CASSETTE ASSY		68	4-231-841-01	SPRING (HEART CAM-B)	
54	4-238-631-01	TAPE SPRING		69	4-231-825-01	CAM (B), HEART	
55	4-247-361-01	COVER, DISPLAY		70	4-242-318-01	OIL-DMPR, 70	
56	4-247-374-01	WINDOW,DISPLAY		71	4-247-752-01	RUBBER, FOOT	
57	4-247-366-01	CABINET, FRONT (AEP,UK)		72	1-829-747-11	WIRE (FLAT TYPE)(26 CORE)	
57	4-247-366-21	CABINET, FRONT (EXCEPT AEP,UK)		73	1-796-351-51	MECHANISM, SINGLE CASSETTE	
58	4-247-376-01	POWER,INDICATER		76	4-247-371-01	BUTTON,CD	
59	4-247-370-01	BUTTON,POWER		77	A-4747-954-A	CONTROL BOARD, COMPLETE (AEP,UK,KR)	
60	4-247-357-01	CAP, AUX		77	A-4747-960-A	CONTROL BOARD, COMPLETE (US,CND)	
61	4-247-358-01	CAP, CD		77	A-4748-774-A	CONTROL BOARD, COMPLETE	
62	4-247-359-01	CAP, TUNING				(E51,HK,SP,TW,AUS)	
63	4-247-356-01	CAP, VOL		79	3-229-336-01	SCREW +BVWH TAPPING	
64	4-247-360-01	COVER, RING		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 NON-S	
65	1-689-576-11	HEADPHONE BOARD					

7-3. Chassis Section

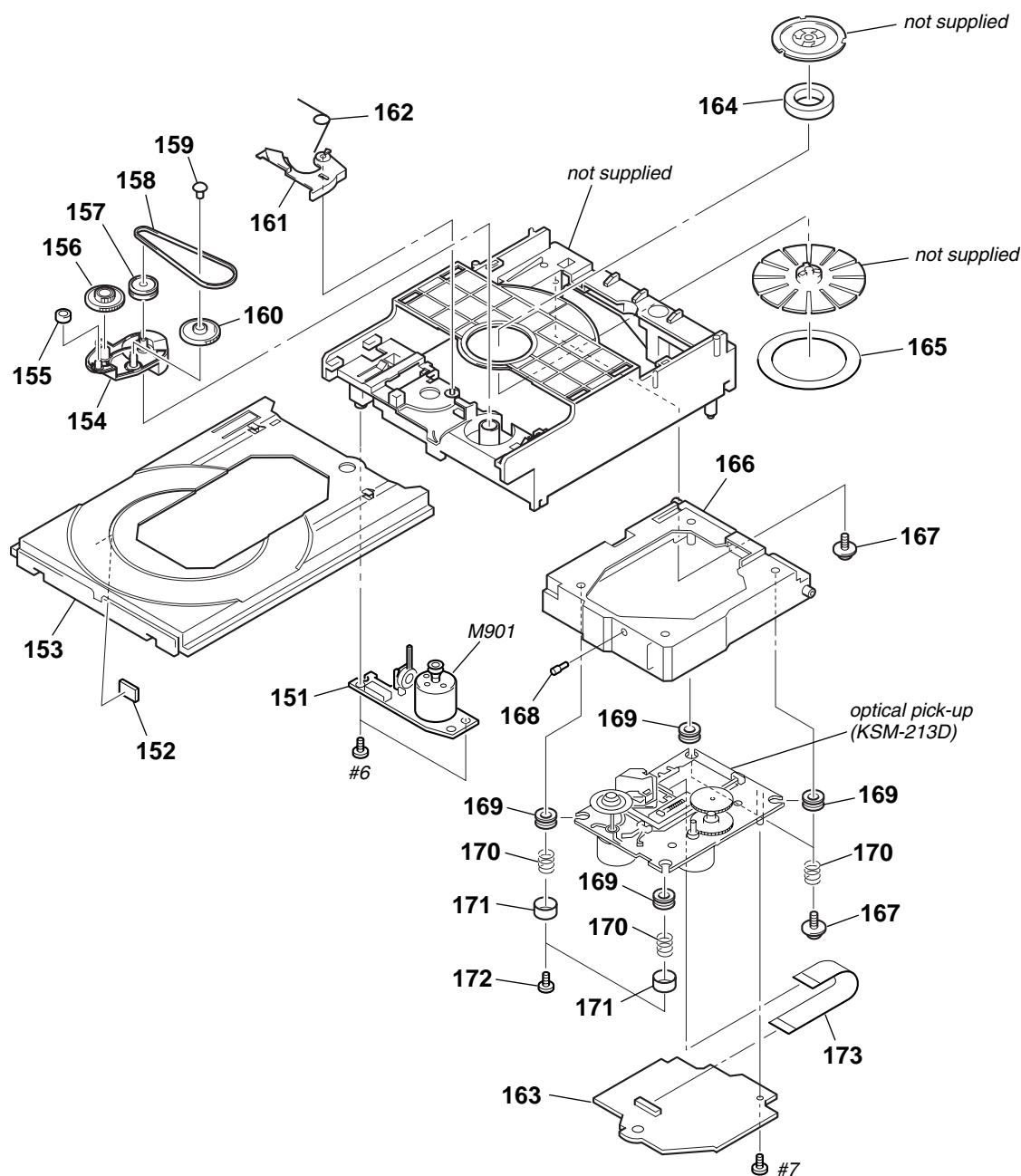


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	4-247-752-01	RUBBER, FOOT		△ PT801	1-443-033-11	TRANSFORMER, POWER (AEP,UK)	
102	1-689-574-11	TRANSFORMER BOARD		△ PT801	1-443-034-11	TRANSFORMER, POWER (HK,SP,AUS)	
103	A-4747-957-A	MAIN BOARD, COMPLETE (AEP,UK,KR)		△ PT801	1-443-036-11	TRANSFORMER, POWER (KR)	
103	A-4747-962-A	MAIN BOARD, COMPLETE (US,CND)		△ PT801		TRANSFORMER, POWER (E51,TW)	
103	A-4748-777-A	MAIN BOARD, COMPLETE (E51,HK,SP,TW,AUS)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 NON-S	
△ PT801	1-443-032-11	TRANSFORMER, POWER (US,CND)		#4	7-682-561-09	SCREW +B 4X8P	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

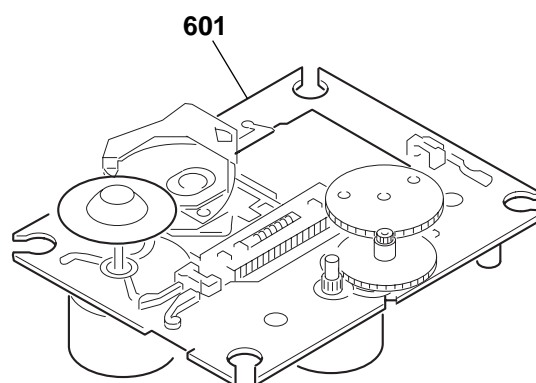
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-4. CD Mechanism Deck Setion



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	1-674-336-12	LOADING BOARD		164	A-473-508-2A	MAGNET	
152	4-925-315-31	DAMPER		165	4-231-777-02	SHEET (KH2)	
153	4-224-894-22	TRAY (CDM55D)		166	4-244-962-01	HOLDER (C213)	
154	4-220-233-01	CAM (CDM55)		167	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
155	4-221-815-11	ROLLER		168	4-229-358-01	SHAFT (BU21)	
156	4-220-237-01	GEAR (A)		169	4-227-549-11	INSULATOR	
157	4-220-234-01	PULLEY (LDG)		170	4-244-959-01	SPRING (T213), COMPRESSION	
158	4-221-816-01	BELT (CDM55)		171	4-231-151-01	STOPPER (BU)	
159	4-227-598-01	SPACER (55)		172	4-218-253-31	SCREW (M2.6), +BTTP	
160	4-220-238-01	GEAR (B)		173	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)	
161	4-220-229-02	LEVER (SW)		M901	A-4735-337-A	MOTOR (LD) ASSY (TRAY)	
162	4-220-239-01	SPRING, TORSION		#6	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
163	A-4728-536-A	CD BOARD, COMPLETE		#7	7-621-255-32	SCREW +P 2X5	

7-5. KSM-213D



Ref. No.	Part No.	Description	Remarks
△ 601	A-4735-357-A	BASE ASSY, OP (KSM-213D)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "***" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- CAPACITORS:**
uF: μ F
- COILS**
uH: μ H
- SEMICONDUCTORS**
In each case, u: μ , for example:
uA..., μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
• Abbreviation
AUS : Australian model
CND: Canadian model
E51 : Chilean and Peruvian models

- HK : Hong Kong model
KR : Korean model
SP : Singapore model
TW : Taiwan model

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4728-536-A	CD BOARD, COMPLETE *****		C190	1-115-156-11	CERAMIC CHIP 1uF	10V
		< CAPACITOR >		C191	1-126-933-11	ELECT 100uF	20.00% 16V
C101	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C192	1-126-382-11	ELECT 100uF	20.00% 16V
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	C193	1-126-382-11	ELECT 100uF	20.00% 16V
C103	1-162-962-11	CERAMIC CHIP 470PF	10% 50V				
C104	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	C194	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C108	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	C196	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C197	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V
C109	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C198	1-126-933-11	ELECT 100uF	20.00% 16V
C110	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V			< CONNECTOR >	
C111	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	CN101	1-770-528-31	CONNECTOR, FFC/FPC 21P	
C112	1-115-156-11	CERAMIC CHIP 1uF	10V	CN102	1-779-466-11	CONNECTOR, FFC (LIF (NON-ZIF)) 16P	
C114	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< DIODE >	
				D101	8-719-056-77	DIODE UDZ-TE-17-3.9B	
C116	1-126-382-11	ELECT 100uF	20.00% 16V			< FERRITE BEAD >	
C117	1-126-382-11	ELECT 100uF	20.00% 16V	FB101	1-469-144-21	FERRITE 0uH	
C118	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	FB103	1-469-144-21	FERRITE 0uH	
C121	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< IC >	
C122	1-126-933-11	ELECT 100uF	20.00% 16V	IC101	8-752-402-31	IC CXD3017Q	
C123	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	IC102	8-759-549-28	IC BA5974FP-E2	
C124	1-125-891-11	CERAMIC CHIP 0.47uF	10.00% 10V	IC103	8-752-089-74	IC CXA2581N-T4	
C125	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< JUMPER RESISTOR >	
C126	1-164-360-11	CERAMIC CHIP 0.1uF	16V	JR101	1-216-864-11	METAL CHIP 0	
C127	1-126-382-11	ELECT 100uF	20.00% 16V			< TRANSISTOR >	
C130	1-164-360-11	CERAMIC CHIP 0.1uF	16V	Q101	8-729-049-31	TRANSISTOR 2SB710A-RTX	
C131	1-126-933-11	ELECT 100uF	20.00% 16V	Q102	8-729-920-85	TRANSISTOR 2SD1664-T100-QR	
C133	1-162-921-11	CERAMIC CHIP 33PF	5% 50V			< RESISTOR >	
C140	1-115-156-11	CERAMIC CHIP 1uF	10V	R101	1-216-821-11	METAL CHIP 1K	5% 1/10W
C143	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R102	1-216-845-11	METAL CHIP 100K	5% 1/10W
C145	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R103	1-216-835-11	METAL CHIP 15K	5% 1/10W
C146	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	R104	1-216-839-11	METAL CHIP 33K	5% 1/10W
C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R106	1-216-821-11	METAL CHIP 1K	5% 1/10W
C159	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V	R107	1-216-833-11	METAL CHIP 10K	5% 1/10W
C162	1-126-382-11	ELECT 100uF	20.00% 16V	R108	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
C163	1-126-933-11	ELECT 100uF	20.00% 16V	R109	1-216-857-11	METAL CHIP 1M	5% 1/10W
C165	1-164-360-11	CERAMIC CHIP 0.1uF	16V	R111	1-216-846-11	METAL CHIP 120K	5% 1/10W
C167	1-162-920-11	CERAMIC CHIP 27PF	5% 50V	R114	1-218-745-11	METAL CHIP 160K	5% 1/10W
C168	1-162-919-11	CERAMIC CHIP 22PF	5% 50V				
C171	1-115-412-11	CERAMIC CHIP 680PF	5.00% 25V	R116	1-216-797-11	METAL CHIP 10	5% 1/10W
C172	1-162-927-11	CERAMIC CHIP 100PF	5% 50V				
C181	1-115-412-11	CERAMIC CHIP 680PF	5.00% 25V				
C182	1-162-927-11	CERAMIC CHIP 100PF	5% 50V				
C183	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V				
C184	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V				
C185	1-125-891-11	CERAMIC CHIP 0.47uF	10.00% 10V				

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R117	1-216-821-11	METAL CHIP	1K	5%	1/10W	C607	1-126-963-11	ELECT	4.7uF	20.00%	50V
R118	1-216-809-11	METAL CHIP	100	5%	1/10W	C608	1-126-916-11	ELECT	1000uF	20.00%	6.3V
R119	1-216-826-11	METAL CHIP	2.7K	5%	1/10W						
R120	1-216-835-11	METAL CHIP	15K	5%	1/10W	C609	1-127-876-21	CERAMIC	0.01uF	10%	50V
						C610	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
R122	1-216-845-11	METAL CHIP	100K	5%	1/10W	C611	1-124-584-00	ELECT	100uF	20%	10V
R123	1-216-833-11	METAL CHIP	10K	5%	1/10W	C612	1-124-234-00	ELECT	22uF	20%	16V
R124	1-216-845-11	METAL CHIP	100K	5%	1/10W	C613	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R131	1-216-813-11	METAL CHIP	220	5%	1/10W						
R143	1-216-836-11	METAL CHIP	18K	5%	1/10W	C614	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
						C615	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
R144	1-216-836-11	METAL CHIP	18K	5%	1/10W	C616	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V
R147	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	C617	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R148	1-216-797-11	METAL CHIP	10	5%	1/10W	C618	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
R149	1-216-797-11	METAL CHIP	10	5%	1/10W						
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W	C619	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V
						C620	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R151	1-216-845-11	METAL CHIP	100K	5%	1/10W	C621	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R158	1-216-837-11	METAL CHIP	22K	5%	1/10W	C622	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R159	1-216-837-11	METAL CHIP	22K	5%	1/10W	C623	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
R162	1-216-847-11	METAL CHIP	150K	5%	1/10W						
R171	1-216-837-11	METAL CHIP	22K	5%	1/10W	C624	1-126-947-11	ELECT	47uF	20.00%	25V
						C625	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R172	1-216-837-11	METAL CHIP	22K	5%	1/10W	C626	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
R173	1-216-837-11	METAL CHIP	22K	5%	1/10W	C627	1-126-964-11	ELECT	10uF	20.00%	50V
R181	1-216-837-11	METAL CHIP	22K	5%	1/10W	C628	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
R182	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R183	1-216-837-11	METAL CHIP	22K	5%	1/10W	C629	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
						C630	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R190	1-216-813-11	METAL CHIP	220	5%	1/10W	C631	1-162-282-31	CERAMIC	100PF	10%	50V
R191	1-216-839-11	METAL CHIP	33K	5%	1/10W	C632	1-162-282-31	CERAMIC	100PF	10%	50V
R192	1-216-839-11	METAL CHIP	33K	5%	1/10W	C633	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R193	1-216-846-11	METAL CHIP	120K	5%	1/10W						
R194	1-216-845-11	METAL CHIP	100K	5%	1/10W	C634	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
						C635	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R195	1-216-853-11	METAL CHIP	470K	5%	1/10W	C636	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R196	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C637	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R197	1-216-821-11	METAL CHIP	1K	5%	1/10W	C638	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< NETWORK >				C639	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
RN101	1-233-576-11	RES, CHIP NETWORK 100				C640	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< SWITCH >				C641	1-126-960-11	ELECT	1uF	20.00%	50V
						C642	1-126-963-11	ELECT	4.7uF	20.00%	50V
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)				C643	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
		< VIBRATOR >				C644	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
X101	1-767-226-11	VIBRATOR, CRYSTAL (16.9344)				C645	1-162-282-31	CERAMIC	100PF	10%	50V
*****						C646	1-126-964-11	ELECT	10uF	20.00%	50V
	A-4747-954-A	CONTROL BOARD, COMPLETE (AEP, UK, KR)				C647	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
		*****				C648	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
	A-4747-960-A	CONTROL BOARD, COMPLETE (US, CND)									
		*****				C649	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
	A-4748-774-A	CONTROL BOARD, COMPLETE				C650	1-126-933-11	ELECT	100uF	20.00%	16V
		(E51, HK, SP, TW, AUS)				C651	1-162-282-31	CERAMIC	100PF	10%	50V
		*****				C652	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C653	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >									
	4-247-818-01	GUIDE (FL)				CN601	1-779-294-11	CONNECTOR, FFC (LIF (NON-ZIF)) 26P			
	4-247-819-01	HOLDER, SENSOR				CN602	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
	4-247-820-01	FILTER, FL				* CN603	1-770-516-31	CONNECTOR, FFC/FPC 8P			
		< CAPACITOR >									
C604	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D601	8-719-010-41	DIODE UZ-5.6BSA-TP			
C605	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	D602	8-719-991-33	DIODE 1SS133T-72			
C606	1-126-963-11	ELECT	4.7uF	20.00%	50V	D603	8-719-991-33	DIODE 1SS133T-77			
						D604	8-719-991-33	DIODE 1SS133T-72			

CONTROL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D605	8-719-991-33	DIODE 1SS133T-72		R613	1-247-831-91	CARBON 1K 5%	1/4W
D606	8-719-991-33	DIODE 1SS133T-72		R614	1-247-831-91	CARBON 1K 5%	1/4W
D607	8-719-991-33	DIODE 1SS133T-72		R615	1-247-831-91	CARBON 1K 5%	1/4W
D608	8-719-989-91	DIODE 1N4148A-T265		R616	1-247-831-91	CARBON 1K 5%	1/4W
D609	8-719-989-91	DIODE 1N4148A-T265		R617	1-247-831-91	CARBON 1K 5%	1/4W
		< FERRITE BEAD >		R618	1-247-831-91	CARBON 1K 5%	1/4W
FB601	1-412-473-21	INDUCTOR 0uH		R619	1-216-845-11	METAL CHIP 100K 5%	1/16W
		< FLUORESCENT INDICATOR TUBE >		R620	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
FL601	1-518-908-11	INDICATOR TUBE, FLUORESCENT		R621	1-216-821-11	METAL CHIP 1K 5%	1/16W
		< IC >		R622	1-216-835-11	METAL CHIP 15K 5%	1/16W
IC601	6-803-170-01	IC LC876764C-51E5		R623	1-216-817-11	METAL CHIP 470 5%	1/16W
IC602	6-700-250-01	IC PST3445UL		R624	1-216-833-11	METAL CHIP 10K 5%	1/16W
IC603	6-701-681-01	IC RPM7140-V4 (■)		R625	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
IC604	8-759-598-69	IC BA6956AN		R626	1-216-833-11	METAL CHIP 10K 5%	1/16W
		< JUMPER RESISTOR >		R627	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
JR601	1-216-864-11	METAL CHIP 0 5%	1/16W	R629	1-249-436-11	CARBON 39K 5%	1/4W
JR602	1-216-864-11	METAL CHIP 0 5%	1/16W	R631	1-216-837-11	METAL CHIP 22K 5%	1/16W
JR604	1-216-864-11	METAL CHIP 0 5%	1/16W			(E51, HK, SP, TW, AUS)	
JR607	1-216-864-11	METAL CHIP 0 5%	1/16W	R632	1-216-845-11	METAL CHIP 100K 5%	1/16W
		< COIL >		R633	1-216-845-11	METAL CHIP 100K 5%	1/16W
L601	1-410-509-11	INDUCTOR 10uH		R634	1-216-833-11	METAL CHIP 10K 5%	1/16W
L602	1-410-509-11	INDUCTOR 10uH		R635	1-216-845-11	METAL CHIP 100K 5%	1/16W
		< DIODE >		R636	1-216-845-11	METAL CHIP 100K 5%	1/16W
LED601	8-719-059-98	DIODE SLR-342VCT31		R637	1-216-845-11	METAL CHIP 100K 5%	1/16W
		< TRANSISTOR >		R638	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q601	8-729-230-49	TRANSISTOR 2SC2712L-TE85R		R639	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q602	6-550-296-01	TRANSISTOR 2SA1980G		R640	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q603	8-729-230-49	TRANSISTOR 2SC2712L-TE85R		R641	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q604	8-729-230-49	TRANSISTOR 2SC2712L-TE85R		R642	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q605	6-550-297-01	TRANSISTOR 2SA1981Y		R643	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q606	6-550-305-01	TRANSISTOR 2SA1296GR- (TPE2)		R644	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q607	8-729-900-53	TRANSISTOR DTC114EK		R645	1-216-845-11	METAL CHIP 100K 5%	1/16W
Q608	6-550-297-01	TRANSISTOR 2SA1981Y		R646	1-216-845-11	METAL CHIP 100K 5%	1/16W
		< RESISTOR >		R647	1-216-845-11	METAL CHIP 100K 5%	1/16W
R601	1-216-828-11	METAL CHIP 3.9K 5%	1/16W	R648	1-216-845-11	METAL CHIP 100K 5%	1/16W
		(E51, HK, SP, TW, AUS)		R649	1-216-845-11	METAL CHIP 100K 5%	1/16W
R601	1-216-833-11	METAL CHIP 10K 5%	1/16W	R650	1-216-845-11	METAL CHIP 100K 5%	1/16W
		(US, CND, AEP, UK, KR)		R651	1-216-845-11	METAL CHIP 100K 5%	1/16W
R602	1-216-821-11	METAL CHIP 1K 5%	1/16W	R652	1-216-845-11	METAL CHIP 100K 5%	1/16W
R603	1-216-821-11	METAL CHIP 1K 5%	1/16W	R653	1-216-845-11	METAL CHIP 100K 5%	1/16W
R604	1-216-821-11	METAL CHIP 1K 5%	1/16W	R654	1-216-845-11	METAL CHIP 100K 5%	1/16W
R605	1-216-821-11	METAL CHIP 1K 5%	1/16W	R655	1-216-845-11	METAL CHIP 100K 5%	1/16W
R606	1-216-841-11	METAL CHIP 47K 5%	1/16W	R656	1-216-845-11	METAL CHIP 100K 5%	1/16W
R607	1-247-807-31	CARBON 100 5%	1/4W	R657	1-216-845-11	METAL CHIP 100K 5%	1/16W
R608	1-247-807-31	CARBON 100 5%	1/4W	R658	1-216-845-11	METAL CHIP 100K 5%	1/16W
R609	1-216-809-11	METAL CHIP 100 5%	1/16W	R659	1-216-835-11	METAL CHIP 15K 5%	1/16W
R610	1-216-809-11	METAL CHIP 100 5%	1/16W	R660	1-216-845-11	METAL CHIP 100K 5%	1/16W
R611	1-216-809-11	METAL CHIP 100 5%	1/16W	R661	1-216-845-11	METAL CHIP 100K 5%	1/16W
R612	1-249-429-11	CARBON 10K 5%	1/4W	R662	1-216-841-11	METAL CHIP 47K 5%	1/16W
				R663	1-216-841-11	METAL CHIP 47K 5%	1/16W
				R664	1-247-887-00	CARBON 220K 5%	1/4W
				R665	1-216-841-11	METAL CHIP 47K 5%	1/16W
				R666	1-216-821-11	METAL CHIP 1K 5%	1/16W
				R667	1-216-853-11	METAL CHIP 470K 5%	1/16W
				R668	1-216-809-11	METAL CHIP 100 5%	1/16W
				R669	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
				R670	1-216-833-11	METAL CHIP 10K 5%	1/16W
				R671	1-216-841-11	METAL CHIP 47K 5%	1/16W

CONTROL

HEADPHONE

LOADING

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R672	1-216-841-11	METAL CHIP	47K	5%	1/16W	R725	1-216-845-11	METAL CHIP	100K	5%	1/16W
R673	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R726	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R674	1-216-833-11	METAL CHIP	10K	5%	1/16W	R727	1-216-845-11	METAL CHIP	100K	5%	1/16W
R675	1-216-837-11	METAL CHIP	22K	5%	1/16W	R728	1-216-845-11	METAL CHIP	100K	5%	1/16W
R676	1-216-837-11	METAL CHIP	22K	5%	1/16W	R729	1-247-831-91	CARBON	1K	5%	1/4W
R677	1-216-839-11	METAL CHIP	33K	5%	1/16W	R734	1-216-838-11	METAL CHIP	27K	5%	1/16W
R678	1-216-837-11	METAL CHIP	22K	5%	1/16W	R735	1-247-879-91	CARBON	100K	5%	1/4W
R679	1-218-179-11	RES-CHIP	10M	5%	1/10W	R736	1-247-879-91	CARBON	100K	5%	1/4W
R680	1-247-831-91	CARBON	1K	5%	1/4W			< SWITCH >			
R681	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R682	1-249-410-11	CARBON	270	5%	1/4W F	S601	1-786-050-21	SWITCH, KEY BOARD (TUNER/BAND)			
R683	1-216-845-11	METAL CHIP	100K	5%	1/16W	S602	1-786-050-21	SWITCH, KEY BOARD (◀▶ TAPE)			
R684	1-249-426-11	CARBON	5.6K	5%	1/4W	S603	1-786-050-21	SWITCH, KEY BOARD (MD)			
R685	1-216-845-11	METAL CHIP	100K	5%	1/16W	S604	1-786-050-21	SWITCH, KEY BOARD (▲)			
R686	1-218-817-11	RES-CHIP	3.3	10%	1/2W	S605	1-786-050-21	SWITCH, KEY BOARD (■)			
R687	1-249-426-11	CARBON	5.6K	5%	1/4W	S606	1-786-050-21	SWITCH, KEY BOARD (+ ▶▶▶▶▶)			
R688	1-249-429-11	CARBON	10K	5%	1/4W	S607	1-786-050-21	SWITCH, KEY BOARD (◀◀◀◀◀ -)			
R689	1-216-809-11	METAL CHIP	100	5%	1/16W	S608	1-786-050-21	SWITCH, KEY BOARD (I/⏻)			
R690	1-216-809-11	METAL CHIP	100	5%	1/16W	S609	1-786-050-21	SWITCH, KEY BOARD (DISPLAY)			
R691	1-247-807-31	CARBON	100	5%	1/4W	S610	1-786-050-21	SWITCH, KEY BOARD (PLAY MODE/TUNING MODE)			
R692	1-216-809-11	METAL CHIP	100	5%	1/16W						
R693	1-216-809-11	METAL CHIP	100	5%	1/16W	S611	1-786-050-21	SWITCH, KEY BOARD (CD SYNC)			
R694	1-216-809-11	METAL CHIP	100	5%	1/16W	S612	1-786-050-21	SWITCH, KEY BOARD (● REC PAUSE/START)			
R695	1-216-809-11	METAL CHIP	100	5%	1/16W	S613	1-786-050-21	SWITCH, KEY BOARD (CD ▶▶)			
R696	1-216-809-11	METAL CHIP	100	5%	1/16W	S614	1-786-050-21	SWITCH, KEY BOARD (DSG)			
						S615	1-786-050-21	SWITCH, KEY BOARD (VOL+)			
R697	1-247-807-31	CARBON	100	5%	1/4W						
R698	1-247-807-31	CARBON	100	5%	1/4W	S616	1-786-050-21	SWITCH, KEY BOARD (VOL-)			
R699	1-247-807-31	CARBON	100	5%	1/4W			< VIBRATOR >			
R700	1-216-837-11	METAL CHIP	22K	5%	1/16W						
					(E51, HK, SP, TW, AUS)	X601	9-300-001-87	VIB, XTAL 32.768KHZ CFS-308 CT 32.768KHz			
R700	1-216-295-91	SHORT CHIP	0		(US, CND, AEP, UK, KR)	X602	1-795-880-11	VIBRATOR, CERAMIC 8.64MHz			
R701	1-216-833-11	METAL CHIP	10K	5%	1/16W	*****					
					(US, CND, AEP, UK, KR)		1-689-576-11	HEADPHONE BOARD			
R702	1-216-837-11	METAL CHIP	22K	5%	1/16W			*****			
					(E51, HK, SP, TW, AUS)			< JACK >			
R702	1-247-831-91	CARBON	1K	5%	1/4W						
					(US, CND, AEP, UK, KR)						
R703	1-249-425-11	CARBON	4.7K	5%	1/4W F	J202	1-816-219-11	JACK, HEADPHONE (PHONES)			
R704	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R705	1-216-845-11	METAL CHIP	100K	5%	1/16W			< COIL >			
R706	1-218-867-11	METAL CHIP	6.8K	5%	1/10W						
R707	1-249-430-11	CARBON	12K	5%	1/4W	L205	1-408-117-00	INDUCTOR	10uH		
R708	1-216-840-11	METAL CHIP	39K	5%	1/16W						
R709	1-216-833-11	METAL CHIP	10K	5%	1/16W			< RESISTOR >			
R710	1-247-831-91	CARBON	1K	5%	1/4W	R201	1-249-409-11	CARBON	220	5%	1/4W F
R711	1-218-833-11	METAL CHIP	270	0.5%	1/10W	R202	1-249-412-11	CARBON	390	5%	1/4W F
R712	1-247-831-91	CARBON	1K	5%	1/4W	R203	1-249-409-11	CARBON	220	5%	1/4W F
R713	1-249-419-11	CARBON	1.5K	5%	1/4W F	R204	1-249-412-11	CARBON	390	5%	1/4W F
R714	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	*****					
R715	1-249-422-11	CARBON	2.7K	5%	1/4W F		1-674-336-12	LOADING BOARD			
R716	1-216-828-11	METAL CHIP	3.9K	5%	1/16W			*****			
R717	1-249-427-11	CARBON	6.8K	5%	1/4W F						
R718	1-249-430-11	CARBON	12K	5%	1/4W			< CONNECTOR >			
R719	1-249-419-11	CARBON	1.5K	5%	1/4W F						
R720	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	* CN151	1-568-943-11	PIN, CONNECTOR 5P			
R721	1-249-422-11	CARBON	2.7K	5%	1/4W F			< SWITCH >			
R722	1-216-828-11	METAL CHIP	3.9K	5%	1/16W						
R723	1-247-831-91	CARBON	1K	5%	1/4W	S1	1-786-203-11	SWITCH, LEVER (SLIDE)(OPEN/CLOSE)			
R724	1-249-426-11	CARBON	5.6K	5%	1/4W	*****					

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4747-957-A	MAIN BOARD, COMPLETE (AEP, UK, KR)		C353	1-126-956-91	ELECT	0.1uF 20.00% 50V
		*****		C354	1-124-464-11	ELECT	0.22uF 20% 50V
	A-4747-962-A	MAIN BOARD, COMPLETE (US, CND)		C355	1-124-464-11	ELECT	0.22uF 20% 50V
		*****		C356	1-124-464-11	ELECT	0.22uF 20% 50V
	A-4748-777-A	MAIN BOARD, COMPLETE		C357	1-126-957-11	ELECT	0.22uF 20.00% 50V
		(E51, HK, SP, TW, AUS)		C358	1-126-963-11	ELECT	4.7uF 20.00% 50V
		*****		C359	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
		< CAPACITOR >		C360	1-162-977-11	CERAMIC CHIP	0.0018uF 10.00% 50V
C205	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C361	1-162-977-11	CERAMIC CHIP	0.0018uF 10.00% 50V
C206	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C362	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C207	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C363	1-164-218-11	CERAMIC CHIP	180PF 0.25PF 50V
C208	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C364	1-164-218-11	CERAMIC CHIP	180PF 0.25PF 50V
C219	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C367	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C220	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C368	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C231	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C384	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C301	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C385	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C387	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C305	1-106-361-00	MYLAR	0.0056uF 5.00% 100V	C390	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C306	1-126-923-91	ELECT	220uF 20.00% 10V	C392	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C307	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C396	1-128-801-21	CERAMIC	22PF 5% 50V
C308	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	C397	1-164-733-11	CERAMIC CHIP	820PF 10.00% 50V
C309	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	C398	1-164-733-11	CERAMIC CHIP	820PF 10.00% 50V
C310	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	C401	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C311	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C402	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C312	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C403	1-115-339-11	CERAMIC CHIP	0.1uF 10.00% 50V
C313	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C404	1-115-339-11	CERAMIC CHIP	0.1uF 10.00% 50V
		(AEP, UK, KR)		C405	1-137-420-11	FILM	0.047uF 5.00% 100V
C314	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C406	1-137-420-11	FILM	0.047uF 5.00% 100V
C315	1-124-589-11	ELECT	47uF 20% 16V	C407	1-119-940-51	ELECT	4700uF 20.00% 50V
C316	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	C408	1-119-940-51	ELECT	4700uF 20.00% 50V
C317	1-126-923-91	ELECT	220uF 20.00% 10V	C409	1-128-548-11	ELECT	4700uF 20.00% 25V
C318	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C410	1-128-548-11	ELECT	4700uF 20.00% 25V
C319	1-126-947-11	ELECT	47uF 20.00% 16V	C412	1-126-947-11	ELECT	47uF 20.00% 25V
C320	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C413	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C321	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C414	1-126-947-11	ELECT	47uF 20.00% 25V
C322	1-126-961-11	ELECT	2.2uF 20.00% 50V	C416	1-126-966-11	ELECT	33uF 20.00% 50V
C323	1-126-961-11	ELECT	2.2uF 20.00% 50V	C417	1-126-966-11	ELECT	33uF 20.00% 50V
C324	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	C418	1-126-968-11	ELECT	100uF 20.00% 50V
C325	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V	C419	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C326	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V	C420	1-124-261-00	ELECT	10uF 20% 50V
C327	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	C421	1-126-967-11	ELECT	47uF 20.00% 50V
C328	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	C422	1-126-967-11	ELECT	47uF 20.00% 50V
C329	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	C424	1-124-584-00	ELECT	100uF 20% 10V
C330	1-126-947-11	ELECT	47uF 20.00% 25V	C427	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C331	1-126-947-11	ELECT	47uF 20.00% 25V	C428	1-164-733-11	CERAMIC CHIP	820PF 10.00% 50V
C332	1-164-733-11	CERAMIC CHIP	820PF 10.00% 50V	C431	1-164-733-11	CERAMIC CHIP	820PF 10.00% 50V
C333	1-126-933-11	ELECT	100uF 20.00% 16V	C432	1-124-589-11	ELECT	47uF 20% 16V
C334	1-164-733-11	CERAMIC CHIP	820PF 10.00% 50V	C433	1-124-584-00	ELECT	100uF 20% 10V
C335	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V	C434	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C338	1-126-160-11	ELECT	1uF 20% 50V	C435	1-124-589-11	ELECT	47uF 20% 16V
C339	1-126-160-11	ELECT	1uF 20% 50V	C436	1-126-967-11	ELECT	47uF 20.00% 50V
C341	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C437	1-126-967-11	ELECT	47uF 20.00% 50V
C344	1-126-947-11	ELECT	47uF 20.00% 25V	C438	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C345	1-104-658-91	ELECT	100uF 20.00% 10V	C439	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
		(AEP, UK, KR)		C440	1-130-321-11	FILM	0.1uF 5.00% 100V
C346	1-162-199-31	CERAMIC	10PF 5% 50V	C441	1-130-321-11	FILM	0.1uF 5.00% 100V
C351	1-126-963-11	ELECT	4.7uF 20.00% 50V	C501	1-126-966-11	ELECT	33uF 20.00% 16V
C352	1-126-956-91	ELECT	0.1uF 20.00% 50V				

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C502	1-162-192-31	CERAMIC	2.7PF 10.00% 50V	D429	8-719-991-33	DIODE 1SS133T-72	
C503	1-162-192-31	CERAMIC	2.7PF 10.00% 50V	D430	8-719-048-55	DIODE UZ-10BSC-TP	
C504	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D431	6-500-335-01	DIODE MC2838	
C505	1-113-342-11	CERAMIC	0.1uF 50V	D432	6-500-334-01	DIODE MC2836	
C506	1-163-021-91	CERAMIC CHIP	0.01uF 10.00% 50V	D433	8-719-991-33	DIODE 1SS133T-72	
C507	1-126-157-11	ELECT	10uF 20% 16V	D434	8-719-110-09	DIODE MTZJ-T-77-8.2C	
C508	1-126-157-11	ELECT	10uF 20% 16V	D435	8-719-991-33	DIODE 1SS133T-72	
C509	1-126-968-11	ELECT	100uF 20.00% 50V	D501	8-719-991-33	DIODE 1SS133T-72	
C510	1-126-961-11	ELECT	2.2uF 20.00% 50V	< FERRITE BEAD >			
C511	1-126-961-11	ELECT	2.2uF 20.00% 50V	FB202	1-410-396-41	FERRITE 0.45uH	
C512	1-128-817-21	CERAMIC	470PF 5% 50V	FB203	1-410-396-41	FERRITE 0.45uH	
C513	1-128-817-21	CERAMIC	470PF 5% 50V	FB301	1-410-396-41	FERRITE 0.45uH	
C514	1-136-230-00	FILM	0.0022uF 5.00% 100V	FB302	1-410-396-41	FERRITE 0.45uH	
C515	1-136-230-00	FILM	0.0022uF 5.00% 100V	FB303	1-410-396-41	FERRITE 0.45uH	
C516	1-126-947-11	ELECT	47uF 20.00% 25V	FB304	1-410-396-41	FERRITE 0.45uH	
C517	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	< IC >			
C518	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC201	6-703-084-01	IC STK403-030 (AEP, UK, KR)	
C519	1-126-962-11	ELECT	3.3uF 20.00% 50V	IC201	6-704-106-01	IC STK403-040 (EXCEPT AEP, UK, KR)	
C520	1-126-967-11	ELECT	47uF 20.00% 50V	IC301	6-702-895-01	IC BD3881FV	
< CONNECTOR >				< JACK >			
* CN201	1-564-520-11	PLUG, CONNECTOR 5P		J201	1-793-478-11	JACK, PIN 2P (MD)	
* CN301	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P		J203	1-537-240-31	TERMINAL BOARD (CHECKER PIN)(SPEAKERS)	
CN302	1-779-294-11	CONNECTOR, FFC (LIF (NON-ZIF)) 26P		J204	1-774-785-21	JACK, PIN 1P (SUBWOOFER)	
CN303	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P		< JUMPER RESISTOR >			
CN304	1-784-776-11	CONNECTOR, FFC 15P		JR301	1-216-295-91	SHORT CHIP 0	
CN305	1-568-838-11	CONNECTOR, FFC 21P		< COIL >			
< DIODE >				L201	1-456-107-11	COIL, AIR-CORE	
D301	8-719-991-33	DIODE 1SS133T-72		L202	1-456-107-11	COIL, AIR-CORE	
D302	8-719-010-32	DIODE UZ-4.7BSA-TP		L203	1-408-117-00	INDUCTOR 10uH	
D303	8-719-923-38	DIODE UZ-5.1BSB-TP (AEP, UK, KR)		L204	1-408-117-00	INDUCTOR 10uH	
D304	8-719-010-32	DIODE UZ-4.7BSA-TP		L301	1-456-094-11	TRANSFORMER, BIAS OSCILLATION	
D402	6-500-382-01	DIODE RL203GW-TA		L302	1-408-032-31	INDUCTOR 36uH	
D403	6-500-382-01	DIODE RL203GW-TA		< CABLE HOLDER >			
D404	6-500-378-01	DIODE 1N5402GW (F20)		PN401	1-784-584-11	HOLDER, CABLE (2.5mm PITCH)	
D405	6-500-378-01	DIODE 1N5402GW (F20)		< RESISTOR >			
D406	6-500-378-01	DIODE 1N5402GW (F20)		PR501	1-220-890-11	METAL 0.22 10% 3W	
D407	6-500-378-01	DIODE 1N5402GW (F20)		< TRANSISTOR >			
D408	6-500-376-01	DIODE 1N4003LES		Q301	6-550-333-01	TRANSISTOR 2SC5343GL	
D409	6-500-376-01	DIODE 1N4003LES		Q302	6-550-333-01	TRANSISTOR 2SC5343GL	
D410	6-500-376-01	DIODE 1N4003LES		Q303	6-550-333-01	TRANSISTOR 2SC5343GL	
D411	8-719-983-35	DIODE MTZJ-T-77-33D		Q304	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	
D412	6-500-376-01	DIODE 1N4003LES		Q305	8-729-045-62	TRANSISTOR 2SK2158-T2B	
D413	6-500-382-01	DIODE RL203GW-TA		Q306	8-729-028-83	TRANSISTOR DTA124EUA-T106	
D414	8-719-991-33	DIODE 1SS133T-72		Q307	8-729-045-62	TRANSISTOR 2SK2158-T2B	
D415	8-719-110-09	DIODE MTZJ-T-72-8.2C		Q308	8-729-045-62	TRANSISTOR 2SK2158-T2B	
D416	6-500-335-01	DIODE MC2836		Q309	8-729-216-22	TRANSISTOR 2SA1162-G	
D417	6-500-382-01	DIODE RL203GW-TA		Q310	8-729-216-22	TRANSISTOR 2SA1162-G	
D418	8-719-923-38	DIODE UZ-5.1BSB-TP					
D419	8-719-991-33	DIODE 1SS133T-72					
D420	8-719-991-33	DIODE 1SS133T-72					
D421	8-719-109-89	DIODE MTZJ-T-72-5.6B					
D422	8-719-921-63	DIODE MTZJ-T-77-7.5B					
D423	6-500-382-01	DIODE RL203GW-TA					
D425	8-719-110-09	DIODE MTZJ-T-77-8.2C					
D427	6-500-382-01	DIODE RL203GW-TA					
D428	8-719-991-33	DIODE 1SS133T-72					

MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description			Remarks
Q311	8-729-028-83	TRANSISTOR	DTA124EUA-T106			R312	1-247-847-91	CARBON	4.7K	5%	1/4W
Q312	1-801-806-11	TRANSISTOR	DTC144EK								
Q313	1-801-806-11	TRANSISTOR	DTC144EK			R313	1-216-813-11	METAL CHIP	220	5%	1/16W (AEP, UK, KR)
Q314	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF								
Q315	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R314	1-216-813-11	METAL CHIP	220	5%	1/16W (AEP, UK, KR)
Q316	6-550-296-01	TRANSISTOR	2SA1980G			R315	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
Q401	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R316	1-216-857-11	METAL CHIP	1M	5%	1/16W
Q402	8-729-024-93	TRANSISTOR	2SB1370-E			R317	1-216-840-11	METAL CHIP	39K	5%	1/16W
Q403	6-550-333-01	TRANSISTOR	2SC5343GL								
Q404	6-550-293-01	TRANSISTOR	2SK2937								
Q405	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R318	1-216-817-11	METAL CHIP	470	5%	1/16W
Q406	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R321	1-216-809-11	METAL CHIP	100	5%	1/16W
Q407	6-550-296-01	TRANSISTOR	2SA1980G			R322	1-216-809-11	METAL CHIP	100	5%	1/16W
Q408	6-550-293-01	TRANSISTOR	2SK2937			R323	1-216-852-11	METAL CHIP	390K	5%	1/16W
Q409	6-550-289-01	TRANSISTOR	2SA1235F			R324	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
Q410	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R325	1-216-836-11	METAL CHIP	18K	5%	1/16W
Q411	6-550-289-01	TRANSISTOR	2SA1235F			R326	1-216-836-11	METAL CHIP	18K	5%	1/16W
Q415	8-729-900-53	TRANSISTOR	DTC114EK			R327	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
Q416	8-729-024-93	TRANSISTOR	2SB1370-E			R328	1-216-852-11	METAL CHIP	390K	5%	1/16W
Q417	6-550-333-01	TRANSISTOR	2SC5343GL			R329	1-216-835-11	METAL CHIP	15K	5%	1/16W
Q418	6-550-333-01	TRANSISTOR	2SC5343GL			R330	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q419	6-550-344-01	TRANSISTOR	2SC3266GR			R331	1-216-864-11	METAL CHIP	0	5%	1/16W
Q501	6-550-640-01	TRANSISTOR	KTA1267			R332	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q502	8-729-016-42	TRANSISTOR	KTC3199GR-TP			R333	1-247-847-91	CARBON	4.7K	5%	1/4W
Q503	8-729-230-49	TRANSISTOR	2SC2712G-TE85R			R334	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
Q504	8-729-230-49	TRANSISTOR	2SC2712G-TE85R			R336	1-249-409-11	CARBON	220	5%	1/4W F
Q505	8-729-230-49	TRANSISTOR	2SC2712G-TE85R			R337	1-249-413-11	CARBON	470	5%	1/4W F
Q506	8-729-216-22	TRANSISTOR	2SA1162G-TE85R			R338	1-249-413-11	CARBON	470	5%	1/4W F
Q507	8-729-230-49	TRANSISTOR	2SC2712G-TE85R			R339	1-247-807-31	CARBON	100	5%	1/4W
Q508	8-729-230-49	TRANSISTOR	2SC2712G-TE85R			R340	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
Q509	8-729-230-49	TRANSISTOR	2SC2712G-TE85R			R341	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
Q510	8-729-216-22	TRANSISTOR	2SA1162G-TE85R			R342	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R343	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
						R344	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R345	1-216-843-11	METAL CHIP	68K	5%	1/16W
						R346	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R347	1-216-843-11	METAL CHIP	68K	5%	1/16W
						R348	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R349	1-249-429-11	CARBON	10K	5%	1/4W
						R350	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
						R351	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
						R352	1-249-429-11	CARBON	10K	5%	1/4W
						R353	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R354	1-216-837-11	METAL CHIP	22K	5%	1/16W
						R355	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R356	1-216-837-11	METAL CHIP	22K	5%	1/16W
						R357	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
						R358	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R359	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
						R360	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R361	1-216-820-11	METAL CHIP	820	5%	1/16W
						R362	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R363	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R364	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R365	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
						R366	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
						R367	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
						R368	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R369	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R370	1-216-836-11	METAL CHIP	18K	5%	1/16W

MAIN

TRANSFORMER

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R371	1-216-836-11	METAL CHIP	18K	5%	1/16W	R454	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R372	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R455	1-247-847-91	CARBON	4.7K	5%	1/4W
R373	1-216-826-11	METAL CHIP	2.7K	5%	1/16W						
R374	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R456	1-216-817-11	METAL CHIP	470	5%	1/16W
R375	1-216-864-11	METAL CHIP	0	5%	1/16W	R457	1-216-841-11	METAL CHIP	47K	5%	1/16W
						R458	1-216-841-11	METAL CHIP	47K	5%	1/16W
R377	1-249-434-11	CARBON	27K	5%	1/4W	R459	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R378	1-249-434-11	CARBON	27K	5%	1/4W	R460	1-247-847-91	CARBON	4.7K	5%	1/4W
R389	1-216-840-11	METAL CHIP	39K	5%	1/16W						
R390	1-216-817-11	METAL CHIP	470	5%	1/16W	R461	1-216-817-11	METAL CHIP	470	5%	1/16W
R391	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R465	1-216-813-11	METAL CHIP	220	5%	1/16W
						R466	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R394	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R467	1-216-807-11	METAL CHIP	68	5%	1/16W
R395	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R468	1-249-429-11	CARBON	10K	5%	1/4W
R396	1-216-809-11	METAL CHIP	100	5%	1/16W						
R397	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R469	1-216-817-11	METAL CHIP	470	5%	1/16W
R401	1-249-430-11	CARBON	12K	5%	1/4W	R470	1-247-831-91	CARBON	1K	5%	1/4W
						R471	1-216-837-11	METAL CHIP	22K	5%	1/16W
R402	1-216-802-11	METAL CHIP	27	5%	1/10W	R474	1-216-821-11	METAL CHIP	1K	5%	1/16W
R403	1-216-083-00	METAL CHIP	27K	5%	1/10W	R501	1-247-873-91	CARBON	56K	5%	1/4W
R404	1-216-083-00	METAL CHIP	27K	5%	1/10W						
R405	1-218-446-11	METAL CHIP	1	5%	1/10W	R502	1-247-873-91	CARBON	56K	5%	1/4W
R406	1-249-381-11	CARBON	1	5%	1/4W F	R503	1-249-429-11	CARBON	10K	5%	1/4W
						R504	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R407	1-218-446-11	METAL CHIP	1	5%	1/10W	R505	1-216-837-11	METAL CHIP	22K	5%	1/16W
R408	1-249-381-11	CARBON	1	5%	1/4W F	R506	1-216-833-11	METAL CHIP	10K	5%	1/16W
R412	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R413	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R507	1-216-833-11	METAL CHIP	10K	5%	1/16W
R414	1-249-413-11	CARBON	470	5%	1/4W F	R508	1-247-879-91	CARBON	100K	5%	1/4W
						R509	1-247-879-91	CARBON	100K	5%	1/4W
R415	1-216-844-11	METAL CHIP	82K	5%	1/16W	R510	1-216-848-11	METAL CHIP	180K	5%	1/16W
R416	1-216-807-11	METAL CHIP	68	5%	1/16W	R512	1-249-430-11	CARBON	12K	5%	1/4W
R417	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R419	1-216-833-11	METAL CHIP	10K	5%	1/16W	R513	1-215-863-11	METAL OXIDE	100	5%	1W
R421	1-216-833-11	METAL CHIP	10K	5%	1/16W	R514	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
						R515	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R422	1-216-813-11	METAL CHIP	220	5%	1/16W	R516	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R423	1-216-817-11	METAL CHIP	470	5%	1/16W	R518	1-216-841-11	METAL CHIP	47K	5%	1/16W
R424	1-247-883-00	CARBON	150K	5%	1/4W						
R425	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R519	1-216-857-11	METAL CHIP	1M	5%	1/16W
R427	1-216-833-11	METAL CHIP	10K	5%	1/16W	R520	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R521	1-247-831-91	CARBON	1K	5%	1/4W
R428	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R522	1-216-842-11	METAL CHIP	56K	5%	1/16W
R429	1-249-413-11	CARBON	470	5%	1/4W F	R523	1-216-842-11	METAL CHIP	56K	5%	1/16W
R430	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R431	1-216-797-11	METAL CHIP	10	5%	1/16W	R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R432	1-247-847-91	CARBON	4.7K	5%	1/4W	R525	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R526	1-247-871-91	CARBON	47K	5%	1/4W
R433	1-216-817-11	METAL CHIP	470	5%	1/16W	R527	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R434	1-249-422-11	CARBON	2.7K	5%	1/4W F	R528	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R435	1-249-422-11	CARBON	2.7K	5%	1/4W F						
R436	1-216-797-11	METAL CHIP	10	5%	1/16W	R529	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R437	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	R530	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
						R531	1-216-833-11	METAL CHIP	10K	5%	1/16W
R438	1-216-049-11	RES-CHIP	1K	5%	1/10W	R532	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R439	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R533	1-216-821-11	METAL CHIP	1K	5%	1/16W
R440	1-216-057-00	METAL CHIP	2.2K	5%	1/10W						
R441	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R534	1-216-857-11	METAL CHIP	1M	5%	1/16W
R442	1-216-049-11	RES-CHIP	1K	5%	1/10W	R535	1-216-845-11	METAL CHIP	100K	5%	1/16W

R444	1-216-827-11	METAL CHIP	3.3K	5%	1/16W						
R445	1-216-073-91	RES-CHIP	10K	5%	1/10W	1-689-574-11	TRANSFORMER BOARD				
R447	1-216-218-91	RES-CHIP	6.8K	5%	1/8W		*****				
R449	1-216-218-91	RES-CHIP	6.8K	5%	1/8W						
R450	1-216-833-11	METAL CHIP	10K	5%	1/16W		< CAPACITOR >				
R451	1-216-833-11	METAL CHIP	10K	5%	1/16W	C801	1-126-941-11	ELECT	470uF	20.00%	25V
R452	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R453	1-216-841-11	METAL CHIP	47K	5%	1/16W						

HCD-GP5

Ver 1.5

TRANSFORMER

Ref. No.	Part No.	Description	Remarks
< CONNECTOR >			
* CN801	1-564-512-11	PLUG, CONNECTOR 9P	
CN802	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
< DIODE >			
D801	8-719-991-33	DIODE 1SS133T-72	
D802	8-719-991-33	DIODE 1SS133T-72	
D803	8-719-991-33	DIODE 1SS133T-72	
D804	8-719-991-33	DIODE 1SS133T-72	
< COIL >			
△ L801	1-402-663-11	TRANSFORMER, LINE FILTER (LFT)	
< TRANSFORMER >			
△ PT802	1-439-772-11	TRANSFORMER, POWER	(E51, HK, SP, TW, AUS)
△ PT802	1-439-781-11	TRANSFORMER, POWER (US, CND)	
△ PT802	1-443-041-11	TRANSFORMER, POWER (AEP, UK, KR)	
< RESISTOR >			
△ R803	1-219-776-11	CARBON	2.2M 10% 1/2W (EXCEPT E51, TW)
< RELAY >			
△ RY801	1-755-276-11	RELAY, POWER	
< SWITCH >			
△ SW801	1-786-404-11	SELECTOR, VOLTAGE (SWS-2201)(E51)	

MISCELLANEOUS			

2	1-827-731-11	WIRE (FLAT TYPE)(11 CORE)(EXCEPT AEP,UK)	
2	1-828-984-11	WIRE (FLAT TYPE)(15 CORE)(AEP,UK)	
3	1-693-619-11	TUNER (FM/AM)(AEP, UK, KR)	
3	1-693-620-11	TUNER (FM/AM)(AUS, E51, HK, SP, TW)	
3	1-693-624-11	TUNER (FM/AM)(US, CND)	
△ 5	1-555-795-00	CORD, POWER (EXCEPT US, CND, TW, KR)	
△ 5	1-769-079-22	CORD, POWER (KR)	
△ 5	1-783-532-11	CORD, POWER (US, CND, TW)	
6	1-827-714-11	WIRE (FLAT TYPE)(21 CORE)	
72	1-829-747-11	WIRE (FLAT TYPE)(26 CORE)	
73	1-796-351-51	MECHANISM, SINGLE CASSETTE	
173	1-757-055-11	WIRE, PARALLEL (FFC)(16 CORE)	
△ 601	A-4735-357-A	BASE ASSY, OP (KSM-213D)	
△ PT801	1-443-032-11	TRANSFORMER, POWER (US, CND)	
△ PT801	1-443-033-11	TRANSFORMER, POWER (AEP, UK)	
△ PT801	1-443-034-11	TRANSFORMER, POWER (HK, SP, AUS)	
△ PT801	1-443-036-11	TRANSFORMER, POWER (KR)	
△ PT801	_____	TRANSFORMER, POWER (E51,TW)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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